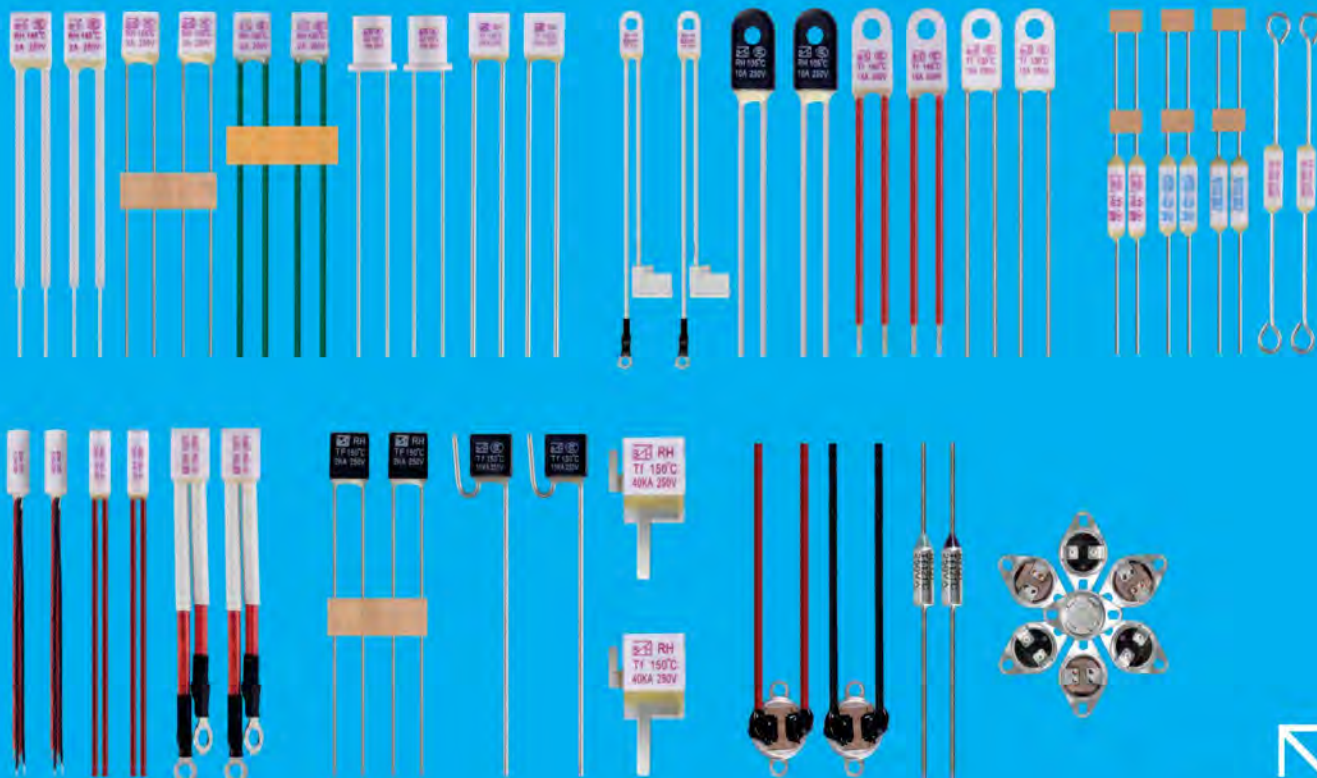




SAFETY PROTECTION COMPONENTS





产品介绍 PRODUCT INTRODUCTION

特点/Characteristic

Sensitive to external temperature

The operating temperature is accurate and stable.

Small size, sealed structure.

Reliable performance has been certified by several international safety standards
(ISO9001-2008/TUV /PSE/CCC/CB/ROHS)

Strict quality control is implemented throughout the manufacturing process.

The manufacturing process uses the most advanced automation equipment.

After 100% inspection with the most advanced automated testing equipment.

工作原理/Operating principle

Alloy type temperature fuse - When the temperature around the alloy type temperature fuse rises to its operating temperature, it is fusible, and the alloy melts and shrinks into a ball attached to the two pin ends under the action of surface tension and the help of a special resin. In this way, the circuit is permanently cut.

Organic matter RY type temperature protection wire

用途/Purpose

Small appliances: electric integrator, hair dryer, heater, coffee machine
Water dispenser, grill, rice cooker, oil tin, electric pressure cooker
Electric kettle, microwave oven, soybean milk machine, electric blanket, etc

Electric: air conditioner, refrigerator, washing machine, water heater, range hood, disinfection cabinet, etc

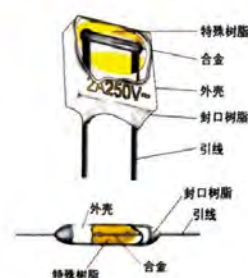
Office electric wheel: copier, fax machine, scanner, printer, shredder, etc

Home appliance accessories: converter, power adapter, motor motor, PCB board, wiring turbulence, etc

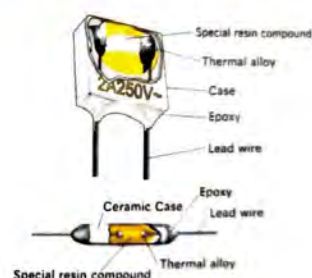
Electronic components: capacitor, resistor, battery, etc.

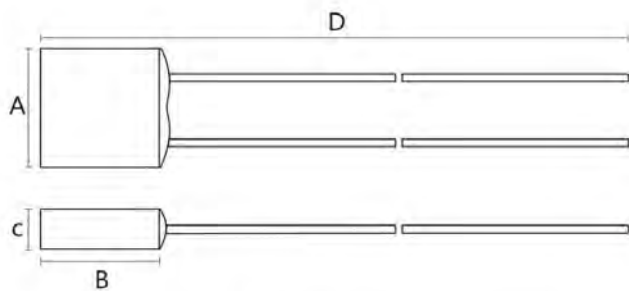
Other: electric toys, massage equipment, medical equipment

熔断前 Before the fuse



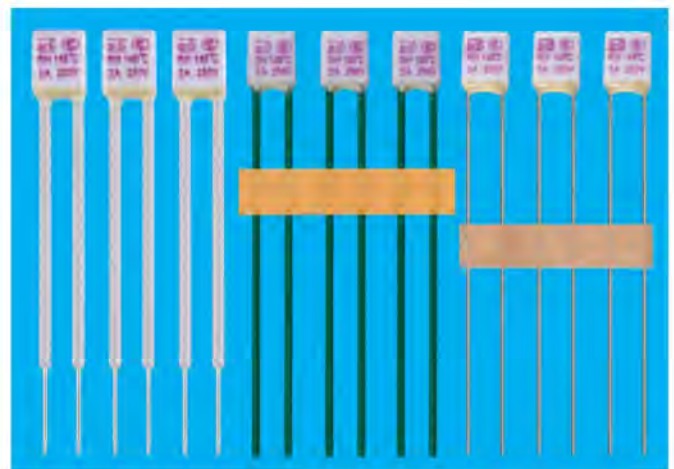
熔断后 After fusina





尺寸: Dimensions(mm)

A	5.5±0.2	6.3±0.2	6.5±0.2
B	5.4±0.2	6.6±0.2	8.0±0.2
C	2.3±0.2	2.5±0.2	2.5±0.2
D	70±0.2	与用户商定	

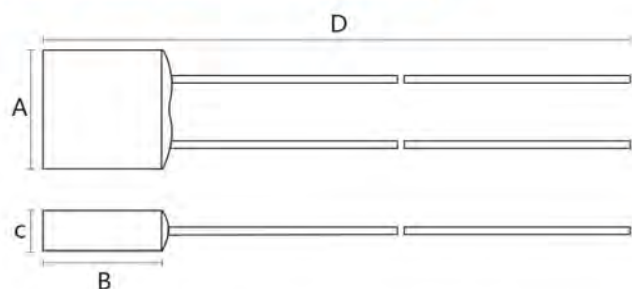


技术参数

Technical parameters

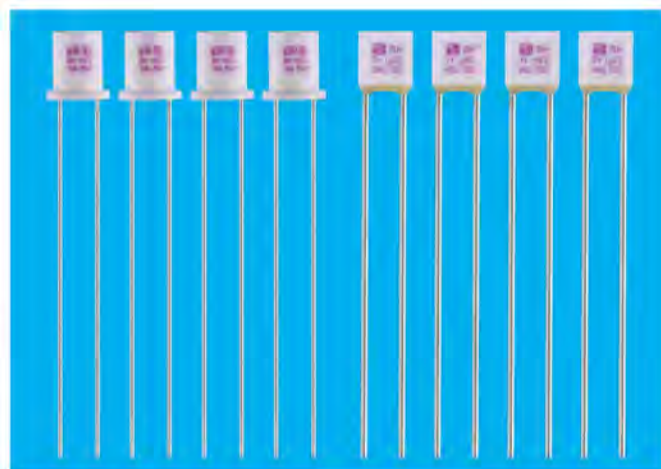
额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)			极限温度 TM(°C)	额定电流 IR(A)
		5A	10A/15A	20A		
75	72±2	55	50	42	180	5A/10A/15A/20A
92	87±2	72	67	65	180	5A/10A/15A/20A
102	97±2	80	75	73	180	5A/10A/15A/20A
105	101±2	83	78	76	180	5A/10A/15A/20A
110	106±2	85	80	78	180	5A/10A/15A/20A
115	111±2	87	82	80	180	5A/10A/15A/20A
120	116±2	95	90	88	180	5A/10A/15A/20A
125	121±2	98	93	91	180	5A/10A/15A/20A
130	126±2	103	98	96	180	5A/10A/15A/20A
135	131±2	106	101	99	180	5A/10A/15A/20A
140	136±2	112	107	105	180	5A/10A/15A/20A
145	141±2	118	113	111	180	5A/10A/15A/20A
150	146±2	122	117	115	200	5A/10A/15A/20A
155	152±2	125	119	117	200	5A/10A/15A/20A
160	156±2	130	124	122	200	5A/10A/15A/20A
167	163±2	133	127	125	200	5A/10A/15A/20A
170	166±2	135	129	127	210	5A/10A/15A/20A
180	176±2	140	136	134	230	5A/10A/15A/20A
185	181±2	142	138	136	230	5A/10A/15A/20A
216	212±2	174	170	166	260	5A/10A/15A/20A
223	218±2	179	174	172	260	5A/10A/15A/20A
230	225±2	188	183	180	280	5A/10A/15A/20A
250	245±2	200	195	190	300	5A/10A/15A/20A

温度保险丝RH01系列



尺寸: Dimensions(mm)

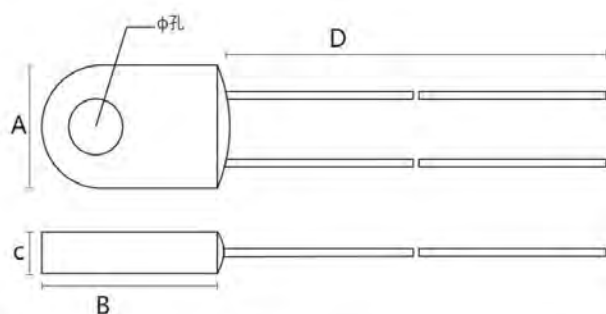
A	8.5±0.2	8.9±0.2	11±0.2	12.5±0.2
B	8.0±0.2	9.6±0.2	11±0.2	12.6±0.2
C	3.5±0.2	3.8±0.2	4.8±0.2	4.9±0.2
D	45±0.2	45±0.2	45±0.2	45±0.2



技术参数

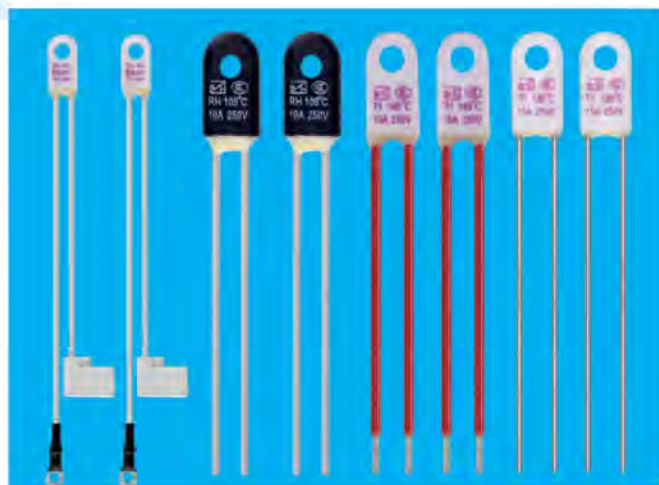
Technical parameters

额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)			极限温度 TM(°C)	额定电流 IR(A)
		5A	10A/15A	20A		
75	72±2	55	50	42	180	5A/10A/15A/20A
92	87±2	72	67	65	180	5A/10A/15A/20A
102	97±2	80	75	73	180	5A/10A/15A/20A
105	101±2	83	78	76	180	5A/10A/15A/20A
110	106±2	85	80	78	180	5A/10A/15A/20A
115	111±2	87	82	80	180	5A/10A/15A/20A
120	116±2	95	90	88	180	5A/10A/15A/20A
125	121±2	98	93	91	180	5A/10A/15A/20A
130	126±2	103	98	96	180	5A/10A/15A/20A
135	131±2	106	101	99	180	5A/10A/15A/20A
140	136±2	112	107	105	180	5A/10A/15A/20A
145	141±2	118	113	111	180	5A/10A/15A/20A
150	146±2	122	117	115	200	5A/10A/15A/20A
155	152±2	125	119	117	200	5A/10A/15A/20A
160	156±2	130	124	122	200	5A/10A/15A/20A
167	163±2	133	127	125	200	5A/10A/15A/20A
170	166±2	135	129	127	210	5A/10A/15A/20A
180	176±2	140	136	134	230	5A/10A/15A/20A
185	181±2	142	138	136	230	5A/10A/15A/20A
216	212±2	174	170	166	260	5A/10A/15A/20A
223	218±2	179	174	172	260	5A/10A/15A/20A
230	225±2	188	183	180	280	5A/10A/15A/20A
250	245±2	200	195	190	300	5A/10A/15A/20A



尺寸: Dimensions(mm)

A	8.0±0.2	9.0±0.2	11±0.2	12±0.2
B	15±0.2	16±0.2	20±0.2	20±0.2
C	3.0±0.2	3.5±0.2	4.8±0.2	5.0±0.2
D	与用户商定			
孔	4.3±0.2	4.5±0.2	5.0±0.2	4.5±0.2

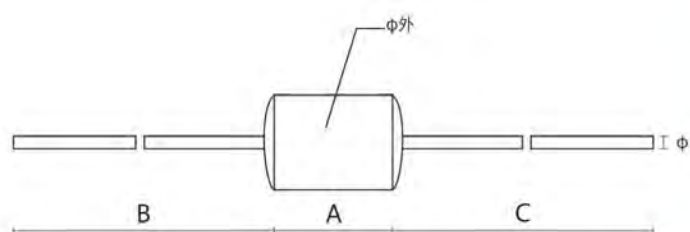


技术参数

Technical parameters

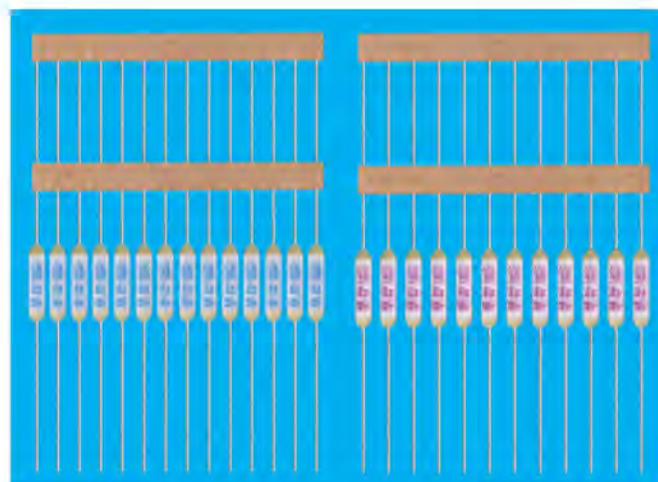
额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)			极限温度 TM(°C)	额定电流 IR(A)
		5A	10A/15A	20A		
75	72±2	55	50	42	180	5A/10A/15A/20A
92	87±2	72	67	65	180	5A/10A/15A/20A
102	97±2	80	75	73	180	5A/10A/15A/20A
105	101±2	83	78	76	180	5A/10A/15A/20A
110	106±2	85	80	78	180	5A/10A/15A/20A
115	111±2	87	82	80	180	5A/10A/15A/20A
120	116±2	95	90	88	180	5A/10A/15A/20A
125	121±2	98	93	91	180	5A/10A/15A/20A
130	126±2	103	98	96	180	5A/10A/15A/20A
135	131±2	106	101	99	180	5A/10A/15A/20A
140	136±2	112	107	105	180	5A/10A/15A/20A
145	141±2	118	113	111	180	5A/10A/15A/20A
150	146±2	122	117	115	200	5A/10A/15A/20A
155	152±2	125	119	117	200	5A/10A/15A/20A
160	156±2	130	124	122	200	5A/10A/15A/20A
167	163±2	133	127	125	200	5A/10A/15A/20A
170	166±2	135	129	127	210	5A/10A/15A/20A
180	176±2	140	136	134	230	5A/10A/15A/20A
185	181±2	142	138	136	230	5A/10A/15A/20A
216	212±2	174	170	166	260	5A/10A/15A/20A
223	218±2	179	174	172	260	5A/10A/15A/20A
230	225±2	188	183	180	280	5A/10A/15A/20A
250	245±2	200	195	190	300	5A/10A/15A/20A

温度保险丝RH03系列



尺寸: Dimensions(mm)

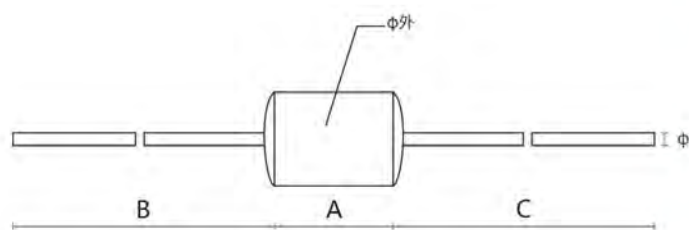
A	9.0±0.2	10±0.2	11.5±0.2
B	40±0.2	40±0.2	40±0.2
C	40±0.2	40±0.2	40±0.2
瓷管直径	2.5±0.2	3.0±0.2	3.3±0.2
铜线径	0.5±0.2	0.5±0.2	0.6±0.2



技术参数

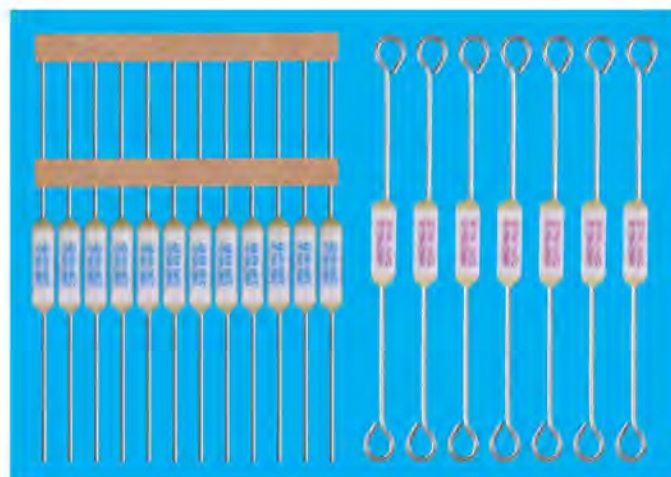
Technical parameters

额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)			极限温度 TM(°C)	额定电流 IR(A)
		5A	10A/15A	20A		
75	72±2	55	50	42	180	5A/10A/15A/20A
92	87±2	72	67	65	180	5A/10A/15A/20A
102	97±2	80	75	73	180	5A/10A/15A/20A
105	101±2	83	78	76	180	5A/10A/15A/20A
110	106±2	85	80	78	180	5A/10A/15A/20A
115	111±2	87	82	80	180	5A/10A/15A/20A
120	116±2	95	90	88	180	5A/10A/15A/20A
125	121±2	98	93	91	180	5A/10A/15A/20A
130	126±2	103	98	96	180	5A/10A/15A/20A
135	131±2	106	101	99	180	5A/10A/15A/20A
140	136±2	112	107	105	180	5A/10A/15A/20A
145	141±2	118	113	111	180	5A/10A/15A/20A
150	146±2	122	117	115	200	5A/10A/15A/20A
155	152±2	125	119	117	200	5A/10A/15A/20A
160	156±2	130	124	122	200	5A/10A/15A/20A
167	163±2	133	127	125	200	5A/10A/15A/20A
170	166±2	135	129	127	210	5A/10A/15A/20A
180	176±2	140	136	134	230	5A/10A/15A/20A
185	181±2	142	138	136	230	5A/10A/15A/20A
216	212±2	174	170	166	260	5A/10A/15A/20A
223	218±2	179	174	172	260	5A/10A/15A/20A
230	225±2	188	183	180	280	5A/10A/15A/20A
250	245±2	200	195	190	300	5A/10A/15A/20A



尺寸: Dimensions(mm)

A	15.5±0.2	16±0.2	16±0.2
B	40±0.2	40±0.2	40±0.2
C	40±0.2	40±0.2	40±0.2
瓷管直径	4.2±0.2	5.0±0.2	6.0±0.2
铜线径	1.0±0.2	1.2±0.2	1.5±0.2

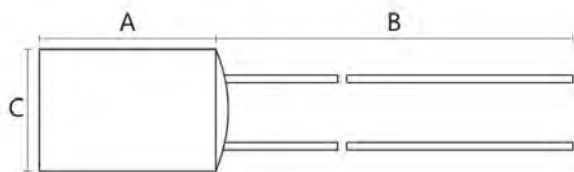


技术参数

Technical parameters

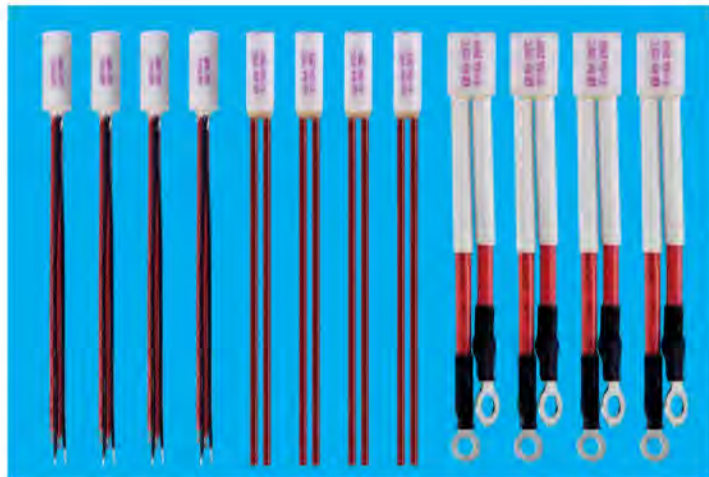
额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)			极限温度 TM(°C)	额定电流 IR(A)
		5A	10A/15A	20A		
75	72±2	55	50	42	180	5A/10A/15A/20A
92	87±2	72	67	65	180	5A/10A/15A/20A
102	97±2	80	75	73	180	5A/10A/15A/20A
105	101±2	83	78	76	180	5A/10A/15A/20A
110	106±2	85	80	78	180	5A/10A/15A/20A
115	111±2	87	82	80	180	5A/10A/15A/20A
120	116±2	95	90	88	180	5A/10A/15A/20A
125	121±2	98	93	91	180	5A/10A/15A/20A
130	126±2	103	98	96	180	5A/10A/15A/20A
135	131±2	106	101	99	180	5A/10A/15A/20A
140	136±2	112	107	105	180	5A/10A/15A/20A
145	141±2	118	113	111	180	5A/10A/15A/20A
150	146±2	122	117	115	200	5A/10A/15A/20A
155	152±2	125	119	117	200	5A/10A/15A/20A
160	156±2	130	124	122	200	5A/10A/15A/20A
167	163±2	133	127	125	200	5A/10A/15A/20A
170	166±2	135	129	127	210	5A/10A/15A/20A
180	176±2	140	136	134	230	5A/10A/15A/20A
185	181±2	142	138	136	230	5A/10A/15A/20A
216	212±2	174	170	166	260	5A/10A/15A/20A
223	218±2	179	174	172	260	5A/10A/15A/20A
230	225±2	188	183	180	280	5A/10A/15A/20A
250	245±2	200	195	190	300	5A/10A/15A/20A

温度保险丝RH04系列



尺寸: Dimensions(mm)

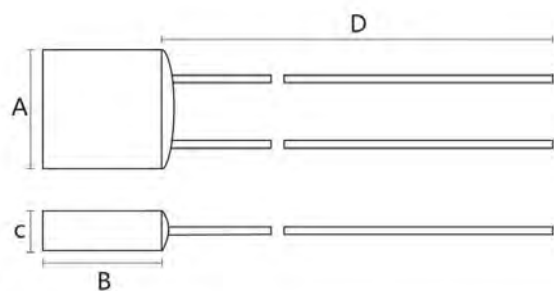
A	12±0.2	15±0.2	22±0.2
B	与用户商定		
C	10±0.2	11±0.2	7.8±0.2



技术参数

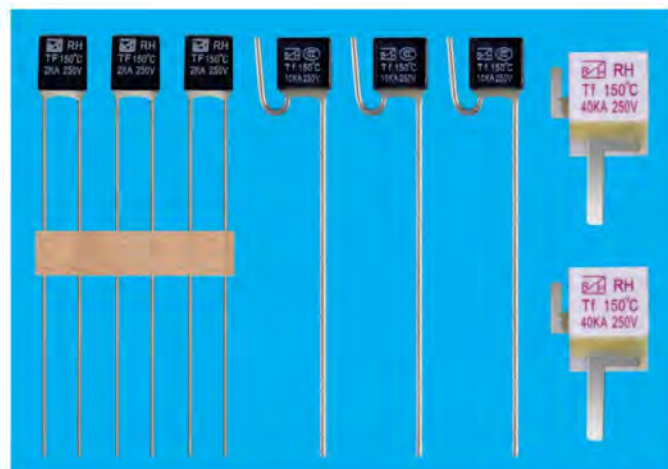
Technical parameters

额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)			极限温度 TM(°C)	额定电流 IR(A)
		5A	10A/15A	20A		
75	72±2	55	50	42	180	5A/10A/15A/20A
92	87±2	72	67	65	180	5A/10A/15A/20A
102	97±2	80	75	73	180	5A/10A/15A/20A
105	101±2	83	78	76	180	5A/10A/15A/20A
110	106±2	85	80	78	180	5A/10A/15A/20A
115	111±2	87	82	80	180	5A/10A/15A/20A
120	116±2	95	90	88	180	5A/10A/15A/20A
125	121±2	98	93	91	180	5A/10A/15A/20A
130	126±2	103	98	96	180	5A/10A/15A/20A
135	131±2	106	101	99	180	5A/10A/15A/20A
140	136±2	112	107	105	180	5A/10A/15A/20A
145	141±2	118	113	111	180	5A/10A/15A/20A
150	146±2	122	117	115	200	5A/10A/15A/20A
155	152±2	125	119	117	200	5A/10A/15A/20A
160	156±2	130	124	122	200	5A/10A/15A/20A
167	163±2	133	127	125	200	5A/10A/15A/20A
170	166±2	135	129	127	210	5A/10A/15A/20A
180	176±2	140	136	134	230	5A/10A/15A/20A
185	181±2	142	138	136	230	5A/10A/15A/20A
216	212±2	174	170	166	260	5A/10A/15A/20A
223	218±2	179	174	172	260	5A/10A/15A/20A
230	225±2	188	183	180	280	5A/10A/15A/20A
250	245±2	200	195	190	300	5A/10A/15A/20A



尺寸: Dimensions(mm)

A	8.5±0.2	8.9±0.2	11±0.2	12.5±0.2
B	8.0±0.2	9.6±0.2	11±0.2	12.6±0.2
C	3.5±0.2	3.8±0.2	4.8±0.2	4.9±0.2
D	40±0.2	40±0.2	40±0.2	40±0.2



技术参数

Technical parameters

产品型号 Model	额定温度 TF(°C)	熔断温度 Fuse-Temp	保持温度 TH(°C)	极限温度 TM(°C)	浪涌冲击 min-max	额定电压 UR(V)	CCC	CB
RH102	102	97±1	72	200	2KA~40KA	250V	•	•
RH110	110	105±1	80	200	2KA~40KA	250V	•	•
RH115	115	111±2	85	200	2KA~40KA	250V	•	•
RH120	120	115±1	90	200	2KA~40KA	250V	•	•
RH125	125	121±1	95	200	2KA~40KA	250V	•	•
RH130	130	126±1	100	200	2KA~40KA	250V	•	•
RH135	135	130±1	105	200	2KA~40KA	250V	•	•
RH150	150	146±1	118	200	2KA~40KA	250V	•	•



温度保险丝安装&测试方法&术语解释

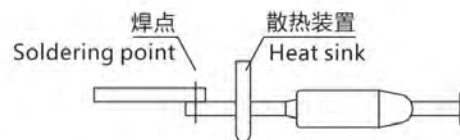
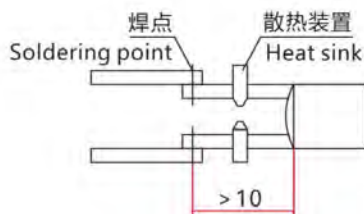
安装/Install

采用锡焊或点焊时,焊接所产生的热量可能传递到热熔断体内部使其动作。为此焊点离壳体应大于10mm。必要时可在壳体与焊点之间附加散热装置(图4.1 图4.2)。同时操作时必须在规定时间内迅速完成(见表1),以保证产品在焊接时不发生动作。

When soldering way of connection, you have to pay attention to the energy passes to inside thermal-link, therefore the distance can't be less than 10mm from soldering point to thermal-link, you'd better to install heatradiating equipment, at the same time follow the form to finish soldering.

Rh焊接时允许的最长时间

热熔断体Tf°C	焊接温度°C	焊接时间s
≤115	< 300	< 1
≥15~150		< 2
> 150		< 3



RY焊接时允许的最长时间可比RH稍长
RY's soldering time can be longer RH'S

温度测试方法/Temperature Test Method

Test equipment

1 thermometer 2 silicone oil pool 3 mixer 4 Sample 5 fixture 6 LED 7 current limiting resistor 8 heater

Test method

Connect the two pins of the sample respectively to the fixture of the test equipment. Through the detection current of about 10 MA (maximum not exceeding 100 MA), use a light-emitting diode to indicate the on-off of the detection current. First stabilize the temperature of the silicone oil pool at -10°C, and then put the sample into the silicone oil pool. The position of the sample should be 4mm below the oil level. Control the temperature of the silicone oil pool to rise at a rate of 0.5-1 °C per minute, when the LED is extinguished, record the thermometer reading, that is, the operating temperature of the test (if there is no oil pool test equipment, you can also test in the thermostat of the blast device (accuracy ±1 °C), but you must pay attention to the thermometer probe close to the sample to obtain accurate results).

Terminology interpretation

Rated operating temperature (TF) :

The temperature fuse is tested to change the temperature of its conductive configuration according to the standard specified method, and the temperature fuse must be operated within the rated operating temperature of +0/-10°C according to the safety standard based on EC691. (Japan Electrical supplies management Law specification tolerance range is +/7°C range of action)

Measured operating temperature:

The temperature fuse in the silicone oil pool at a rate of 0.5--1°C per minute, the detection current is less than 100mA measured fusing temperature, it is the actual operating temperature of the temperature fuse

Temperature holding (TH) : The maximum temperature at which the temperature fuse can be maintained for 168 hours without changing its conductive state through both rated voltage and rated current

Limit temperature (TM) : The maximum temperature at which a fuse can withstand a blow for 1 minute without reconnecting

Rated current (Ir) : The maximum current that the temperature fuse can carry

Rated voltage (Ur) : Maximum operating voltage of the temperature fuse

0603 Fast Acting SMD Fuses 06.000 Series



Description

06.000 Series fast-acting chip fuses help provide overcurrent protection for systems using DC power sources up to 63VDC. Help provide higher hold current in the smaller footprint, improve product reliability and quality, enhance high-temperature performance in a wide range of circuit designs.

Electrical Characteristics

Rated Current	1.0In	2.0In
250mA~8A	4 hour minimum	60 sec maximum

Features

- Lead-Free and RoHS compliant
- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Suitable for rated current of 250mA-8A
- Operating temperature range -55°C to +125°C (consider de-rating)

Applications

- USB charger
- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD monitors
- Scanners

Specification

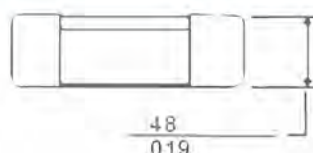
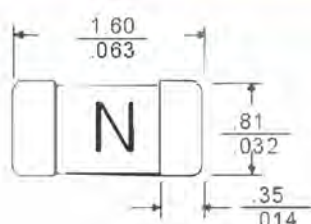
Part No.	Rated Voltage		Rated Current (A)	Breaking Capacity (A)	Typical Cold Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre-Arching I ² t (A ² Sec) ²	Alpha Mark
	DC							
06.000.0.25	63V		0.250	50A	3250	893	0.00042	D
06.000.0.375			0.0375	50A	1310	587	0.00093	E
06.000.0.5			0.500	50A	1070	582	0.0020	F
06.000.0.75			0.750	50A	470	427	0.0092	G
06.000.1			1	50A	300	295	0.011	B
06.000.1.5	32V	-	1.5	50A	150	220	0.045	H
06.000.2			2	50A	72	160	0.115	K
06.000.2.5			2.5	50A	52	145	0.14	L
06.000.3			3	50A	35	130	0.21	O
06.000.3.5			3.5	50A	23.8	130	0.55	R
06.000.4			4	50A	21	120	0.52	S
06.000.5			5	50A	14	110	1.20	T
06.000.6			6	50A	8	110	1.70	V
06.000.7			7	50A	5.6	80	2.30	X
06.000.8			8	50A	3.5	75	3.00	Z

- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
- Typical Pre-arcing I²t are measured at 10In Current
- For fuse below 1A, the color of glass coating is Blue; for 1A and above, it's Green

Dimension (Unit: mm/inch)

Packaging

5,000 pcs per reel



0603 Slow Blow SMD Fuses

06.100 Series



Description

06.100 Series slow-blow chip fuses help provide overcurrent protection for systems using DC power sources up to 32VDC. Help provide higher hold current in the smaller footprint, improve product reliability and quality, enhance high-temperature performance in a wide range of circuit designs.

Electrical Characteristics

Rated Current	1.0In	2.0In	2.5In
1A~8A	4 hour minimum	1~60 sec	5 sec maximum

Features

- Lead-Free and RoHS compliant
- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Suitable for rated current of 1A-8A
- Operating temperature range -55°C to +125°C (consider de-rating)

Applications

- USB charger
- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD monitors
- Scanners

Specification

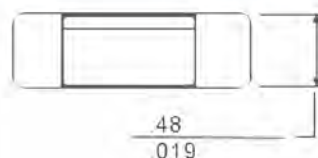
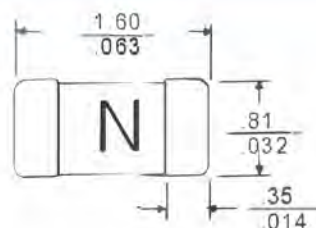
Part No.	Rated Voltage		Rated Current (A)	Breaking Capacity (A)	Typical Cold Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ³	Alpha Mark
	DC							
06.100.1	63V	32V	1	50A	300	345	0.011	B
06.100.1.5			1.5	50A	150	270	0.045	H
06.100.2			2	50A	72	160	0.115	k
06.100.2.5			2.5	50A	52	145	0.14	L
06.100.3			3	50A	35	130	0.21	O
06.100.3.5			3.5	50A	23.8	130	0.55	R
06.100.4			4	50A	21	120	0.52	S
06.100.5			5	50A	14	110	1.70	T
06.100.6			6	50A	8	110	2.30	V
06.100.7			7	50A	6.2	90	3.0	X
06.100.8			8	50A	4.1	80	4.5	Z

- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees
- Typical Pre-arching I²t are measured at 10In Current

Dimension (Unit: mm/inch)

Packaging

5,000 pcs per reel



1206 Fast Acting SMD Fuses

12. 000 Series



Description

12. 000 Series fast-acting chip fuses help provide overcurrent protection for systems using DC power sources up to 72VDC.

Help provide higher hold current in the smaller footprint, improve product reliability and quality, enhance high-temperature performance in a wide range of circuit designs.

Electrical Characteristics

Rated Current	1.0In	2.5In	3.5In
250mA~5A	4 hour min.	5 sec max.	-
6A~30A		-	5 sec max.

Features

- Lead-Free and RoHS compliant
- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Suitable for rated current of 250mA-30A
- Operating temperature range -55℃ to +125℃ (consider de-rating)

Applications

- USB charger
- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD monitors
- Scanners

Specification

Part No.	Rated Voltage			Rated Current (A)	Breaking Capacity (A)			Typical Cold Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ²	Alpha Mark
					72V	32V	24V				
12.000.0.25	63V 72V 25V	32V	24V	250mA	50A	32V	150A	3608	1407	0.0004	-2.5
12.000.0.375				375mA				1882	718	0.0008	E
12.000.0.5				500mA				1028	650	0.0022	0.5
12.000.0.75				750mA				601	616	0.0057	-7.5
12.000.1				1A				490	510	0.10	H
12.000.1.25				1.25A				165	184	0.021	▲
12.000.1.5				1.5A				240	367	0.15	K
12.000.2				2A				144	316	0.41	N
12.000.2.5				2.5A				83	240	0.65	O
12.000.3				3A				53	187	1.39	P
12.000.3.5				3.5A				40	180	1.68	R
12.000.4				4A				35	173	1.73	S
12.000.4.5				4.5A				27	164	2.62	X
12.000.5				5A				22	141	2.89	T
12.000.6.5				6.5A				16	140	3.4	6.5
12.000.7				7A				12	140	5.68	7
12.000.10				10A				4.4	59	2.16	10
12.000.12				12A				3.8	67	7.11	12
12.000.15				15A				2.9	66	23.89	15
12.000.20	20A	200A	1.6	60	47.17	20					
12.000.25	25A	250A	1.4	57	32	25					
12.000.30	30A	300A	1	68	43	30					

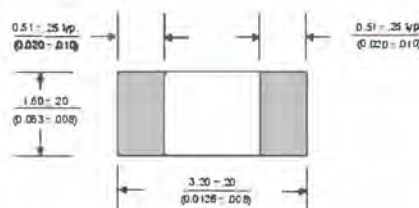
- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25℃

Dimension (Unit: mm)

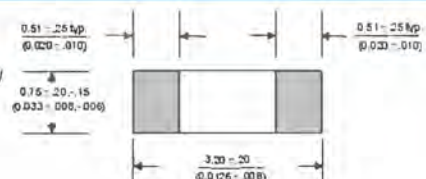
Packaging

3,000 pcs per reel

Top view



Side view



1206 Slow Blow SMD Fuses

12.100 Series



Description

12.100 Series slow-blow chip fuses help provide overcurrent protection for systems using DC power sources up to 72VDC. Help provide higher hold current in the smaller footprint, improve product reliability and quality, enhance high-temperature performance in a wide range of circuit designs.

Electrical Characteristics

Rated Current	1.0In	2.5In	3.0In	10.0In
1A~7A	4 hour min.	5 sec max.	0.1 sec~3sec	0.2 sec~20sec

Features

- Lead-Free and RoHS compliant
- High inrush current withstanding capability
- Compatible with reflow and wave solder
- Excellent environmental integrity
- One time positive disconnect
- Suitable for rated current of 1A-7A
- Operating temperature range -55°C to +125°C (consider de-rating)

Applications

- USB charger
- Laptops
- Digital cameras
- Cell phones
- Printers
- DVD players
- Portable electronics
- Game systems
- LCD monitors
- Scanners

Specification

Part No .	Rated Voltage			Rated Current (A)	Breaking Capacity (A)	Typical Cold Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ³	Alpha Mark		
	DC										
12.100.1	63V	32V	24V	1	50A	480	510	0.11	H		
12.100.1.5				1.5	50A	230	367	0.17	k		
12.100.2				2	50A	140	316	0.43	N		
12.100.2.5				2.5	50A	80	240	0.68	O		
12.100.3	72V	32V	24V	3	50A	50	187	1.41	P		
12.100.3.5				3.5	50A	38	180	1.72	R		
12.100.4				4	50A	34	173	1.78	S		
12.100.4.5				4.5	50A	25	164	2.65	X		
12.100.5	125V	24V	24V	5	50A	21.5	145	2.91	T		
12.100.7				7	50A	12.3	140	5.72	7		
12.100.8				-	-	8	300A	10	123	6.8	M
12.100.10				-	-	10	300A	7	110	10.6	U

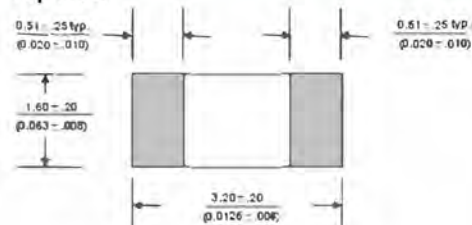
- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25degrees
- Typical Pre-arching I²t are measured at 10In Current

Dimension (Unit: mm/inch)

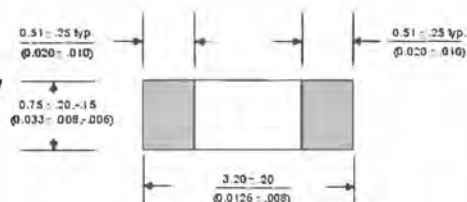
Packaging

3,000 pcs per reel

Top view



Side view



6125 series, Surface Mount fuse Fast-Acting 125V/250V/300V



Description

6125 Series fast-acting square Surface Mount fuses are ceramic tube/end cap constructions, RoHS compliant, Halogen Free and lead-free, with U.S. (UL/CSA) safety agency approvals. Provide board level primary and secondary circuit protection in a wide variety of applications, end caps are available in copper or silver plated.

Electrical Characteristics(UL/CSA,248-14) File No.E340427

Ampere Rating	% of current Rating	Blowing Time
0.05A-15A	100%	>4hours
0.05A-15A	200%	<120sec

Features

- Lead-Free and RoHS compliant
- Inrush withstand capability
- Wide range of current rating (125V/250V/300V)
- Wide range of current rating (50mA-15A)
- Excellent environmental integrity
- Operating temperature range -55°C to +125°C (consider de-rating)

Applications

- LED driver
- Notebook/Laptops
- PC computer
- Office electronic equipment
- Digital camera
- LCD/LED monitor/TV/backlight inverter
- Networking device
- Telecom device
- Industrial equipment
- Power supply

Catalog Number	Ampere Rating(A)	Voltage Rating(V)	Interrupting Rating
SEF0050	0.050	250V SEF(0.05-7A)	50A@250V/300V 200A@125V
SEF0062	0.062		
SEF0080	0.080		
SEF0100	0.100		
SEF0125	0.125		
SEF0200	0.200		
SEF0250	0.250		
SEF0300	0.300	300V SSF(0.05-7A)	
SEF0375	0.375		
SEF0400	0.400		
SEF0500	0.500	125V SFE(0.05-15A)	
SEF0600	0.600		
SEF0630	0.630		
SEF0700	0.700		
SEF0750	0.750		
SEF0800	0.800		
SEF1100	1		

Catalog Number	Ampere Rating(A)	Voltage Rating(V)	Interrupting Rating
SEF1125	1.25	250V SEF(0.05-7A)	50A@250V/300V 200A@125V
SEF1150	1.5		
SEF1200	2		
SEF1250	2.5		
SEF1300	3		
SEF1315	3.15		
SEF1350	3.5		
SEF1400	4	300V SSF(0.05-7A)	
SEF1500	5		
SEF1600	6		
SEF1630	6.3	125V SFE(0.05-15A)	
SEF1700	7		
SEF1750	7.5		
SEF1800	8		
SEF2100	10		
SEF2120	12		
SEF2150	15		

Dimension (Unit:mm)

Materials

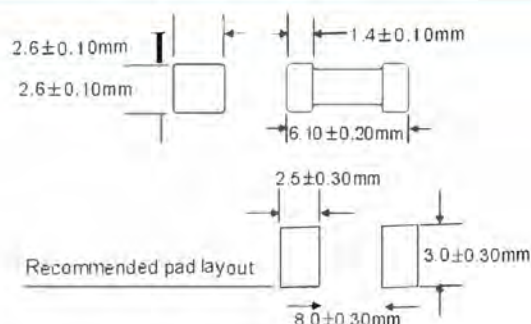
Body: ceramic

End caps: Copper or Silver plated brass

Fuse element: Alloy wire

Packaging

1,000 pcs per reel



6125 series, Surface Mount fuse Slow Blow 125V/250V/300V



Description

6125 Series slow-blow square Surface Mount fuses are ceramic tube/ end cap constructions, RoHS compliant, Halogen Free and lead-free. with U.S. (UL/CSA) safety agency approvals. Provide board level primary and secondary circuit protection in a wide variety of applications, end caps are available in copper or silver plated.

Electrical Characteristics(UL/CSA,248-14) File No.E340427

Ampere Rating	% of current Rating	Blowing Time
0.05A-15A	100%	>4hours
0.05A-15A	200%	<120sec

Features

- Lead-Free and RoHS compliant
- Inrush withstand capability
- Wide range of current rating (125V/250V/300V)
- Wide range of current rating (50mA-15A)
- Excellent environmental integrity
- Operating temperature range -55°C to +125°C (consider de-rating)

Applications

- LED driver
- Notebook/Laptops
- PC computer
- Office electronic equipment
- Digital camera
- LCD/LED monitor/TV/backlight inverter
- Networking device
- Telecom device
- Industrial equipment
- Power supply

Catalog Number	Ampere Rating(A)	Voltage Rating(V)	Interrupting Rating
SET0050	0.050	250V SET(0.05-7A)	50A@250V/300V 200A@125V
SET0062	0.062		
SET0080	0.080		
SET0100	0.100		
SET0125	0.125		
SET0200	0.200		
SET0250	0.250	300V SST(0.05-7A)	
SET0300	0.300		
SET0375	0.375		
SET0400	0.400	125V STE(0.05-15A)	
SET0500	0.500		
SET0600	0.600		
SET0630	0.630		
SET0700	0.700		
SET0750	0.750		
SET0800	0.800		
SET1100	1		

Catalog Number	Ampere Rating(A)	Voltage Rating(V)	Interrupting Rating
SET1125	1.25	250V SET(0.05-7A)	50A@250V/300V 200A@125V
SET1150	1.5		
SET1200	2		
SET1250	2.5		
SET1300	3		
SET1315	3.15	300V SST(0.05-7A)	
SET1350	3.5		
SET1400	4		
SET1500	5		
SET1600	6	125V STE(0.05-15A)	
SET1630	6.3		
SET1700	7		
SET1750	7.5		
SET1800	8		
SET2100	10		
SET2120	12		
SET2150	15		

Dimension (Unit: mm)

Materials

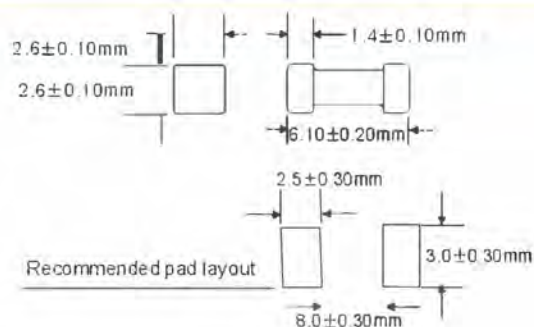
Body: ceramic

End caps: Copper or Silver plated brass

Fuse element: Alloy wire

Packaging

1,000 pcs per reel



BFC Series 5*20mm Fast-Acting Ceramic Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	200mA ~ 10A	E340427(JDYX2)
	200mA ~ 10A	E340427(JDYX8)
	200mA ~ 10A	2012010207569354
	200mA ~ 10A	Pending
	200mA ~ 10A	Pending
	200mA ~ 10A	Pending

• Electrical Characteristics 電氣特性

UL248-1/14 % of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
200%* In	(5 sec Max)
IEC 60127 % of Ampere Rating(In)	Blowing Time
210%* In	(30 min Max)
275%* In	(10 ms~2 s)

• Materials 材質

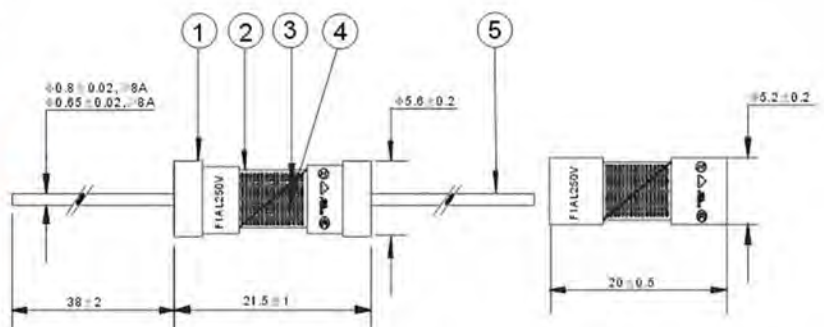
Part Name	Material
Cap	Nickel Plated Brass
Body	Non-Transparent Ceramic Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mv)	I ² T Melting Integral(A ² .S)
BFC0100A/B	100mA	250V/125V	3500	0.0005
BFC0125A/B	125mA	250V/125V	2000	0.003
BFC0160A/B	160mA	250V/125V	2000	0.01
BFC0200A/B	200mA	250V/125V	1700	0.04
BFC0250A/B	250mA	250V/125V	1400	0.06
BFC0315A/B	315mA	250V/125V	1300	0.10
BFC0400A/B	400mA	250V/125V	1200	0.20
BFC0500A/B	500mA	250V/125V	1100	0.35
BFC0630A/B	630mA	250V/125V	650	0.50
BFC0800A/B	800mA	250V/125V	240	1.3
BFC1100A/B	1A	250V/125V	200	1.6
BFC1125A/B	1.25A	250V/125V	200	2.4
BFC1160A/B	1.6A	250V/125V	190	4.6
BFC1200A/B	2A	250V/125V	170	7.9
BFC1250A/B	2.5A	250V/125V	170	12
BFC1315A/B	3.15A	250V/125V	150	22
BFC1400A/B	4A	250V/125V	130	29
BFC1500A/B	5A	250V/125V	130	78
BFC1630A/B	6.3A	250V/125V	130	97
BFC1800A/B	8A	250V/125V	100	290
BFC2100A/B	10A	250V/125V	100	430
BFC2125A/B	12.5A	250V/125V	96	560
BFC2160A/B	16A	250V/125V	90	670
BFC2200A/B	20A	250V/125V	82	700
BFC2250A/B	25A	250V/125V	75	850
BFC2300A/B	31.5A	250V/125V	72	1000

• Dimensions 尺寸



BMF Series 6.35*32mm Fast-Acting Ceramic Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	100mA ~ 50A	JDYX2.E365879
cULus	100mA ~ 50A	JDYX8.E365879

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
200%* In	(5 sec Max)

• Materials 材質

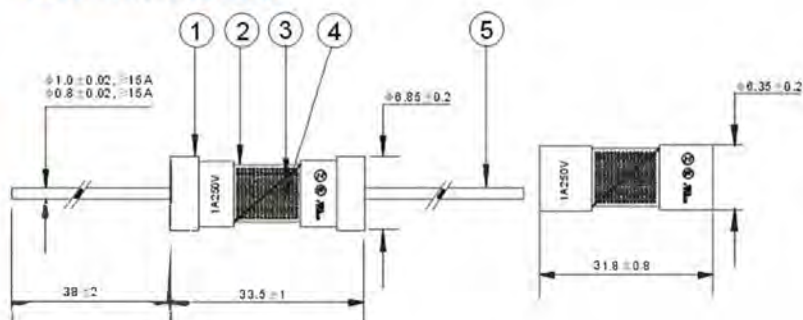
Part Name	Material
Cap	Nickel Plated Brass
Body	Non-Transparent Ceramic Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	200PCS per bag
Box	4,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity
BMF0100A/B	100mA	250V/125V	35A@250V AC (100mA~1A),
BMF0160A/B	160mA	250V/125V	
BMF0200A/B	200mA	250V/125V	
BMF0250A/B	250mA	250V/125V	
BMF0300A/B	300mA	250V/125V	
BMF0315A/B	315mA	250V/125V	100A@250V AC (1.25A~3.5A),
BMF0350A/B	350mA	250V/125V	
BMF0400A/B	400mA	250V/125V	
BMF0500A/B	500mA	250V/125V	
BMF0630A/B	630mA	250V/125V	
BMF0750A/B	750mA	250V/125V	200A@250V AC (4A~10A),
BMF0800A/B	800mA	250V/125V	
BMF1100A/B	1A	250V/125V	
BMF1125A/B	1.25A	250V/125V	
BMF1150A/B	1.5A	250V/125V	
BMF1160A/B	1.6A	250V/125V	750A@250V AC (12A~30A),
BMF1200A/B	2A	250V/125V	
BMF1250A/B	2.5A	250V/125V	
BMF1300A/B	3A	250V/125V	
BMF1315A/B	3.15A	250V/125V	
BMF1350A/B	3.5A	250V/125V	1000A@250V AC (32A~50A)
BMF1400A/B	4A	250V/125V	
BMF1500A/B	5A	250V/125V	
BMF1600A/B	6A	250V/125V	
BMF1630A/B	6.3A	250V/125V	
BMF1800A/B	8A	250V/125V	
BMF2100A/B	10A	250V/125V	
BMF2120A/B	12A	250V/125V	
BMF2150A/B	15A	250V/125V	
BMF2200A/B	20A	250V/125V	
BMF2250A/B	25A	250V/125V	
BMF2300A/B	30A	250V/125V	
BMF2320A/B	32A	250V/125V	
BMF2500A/B	50A	250V/125V	

• Dimensions 尺寸



BMT Series 6.35*32mm Time-Lag Ceramic Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	100mA ~ 50A	JDYX2.E365879
CULUS	100mA ~ 50A	JDYX8.E365879

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
200% * In	(120 sec Max)

• Materials 材質

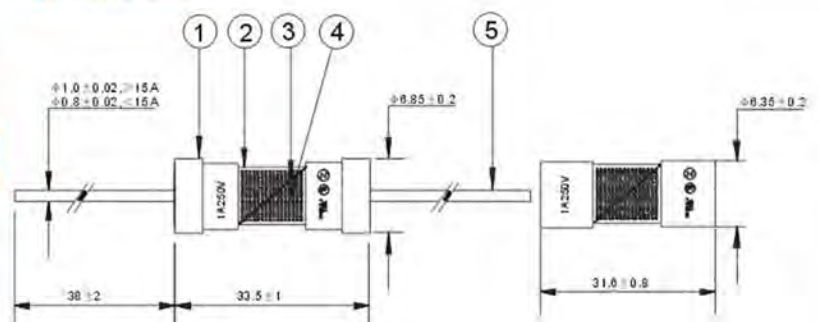
Part Name	Material
Cap	Nickel Plated Brass
Body	Non-Transparent Ceramic Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	200PCS per bag
Box	4,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity
BMT0100A/B	100mA	250V/125V	35A@250V AC (100mA~1A);
BMT0160A/B	160mA	250V/125V	
BMT0200A/B	200mA	250V/125V	
BMT0250A/B	250mA	250V/125V	
BMT0300A/B	300mA	250V/125V	
BMT0315A/B	315mA	250V/125V	
BMT0350A/B	350mA	250V/125V	
BMT0400A/B	400mA	250V/125V	
BMT0500A/B	500mA	250V/125V	
BMT0630A/B	630mA	250V/125V	
BMT0750A/B	750mA	250V/125V	100A@250V AC (1.25A~3.5A);
BMT0800A/B	800mA	250V/125V	
BMT1100A/B	1A	250V/125V	
BMT1125A/B	1.25A	250V/125V	200A@250V AC (4A~10A).
BMT1150A/B	1.5A	250V/125V	
BMT1160A/B	1.6A	250V/125V	750A@250V AC (12A~30A)
BMT1200A/B	2A	250V/125V	
BMT1250A/B	2.5A	250V/125V	
BMT1300A/B	3A	250V/125V	
BMT1315A/B	3.15A	250V/125V	
BMT1350A/B	3.5A	250V/125V	
BMT1400A/B	4A	250V/125V	
BMT1500A/B	5A	250V/125V	
BMT1600A/B	6A	250V/125V	
BMT1630A/B	6.3A	250V/125V	
BMT1800A/B	8A	250V/125V	1000A@250V AC (32A~50A)
BMT2100A/B	10A	250V/125V	
BMT2120A/B	12A	250V/125V	
BMT2150A/B	15A	250V/125V	
BMT2200A/B	20A	250V/125V	
BMT2250A/B	25A	250V/125V	
BMT2300A/B	30A	250V/125V	
BMT2320A/B	32A	250V/125V	
BMT2500A/B	50A	250V/125V	

Dimensions



BTC Series 5*20mm Time-Lag Ceramic Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	200mA ~ 10A	E340427(JDYX2)
	200mA ~ 10A	E340427(JDYX8)
	200mA ~ 10A	2012010207569354
	200mA ~ 10A	Pending
	200mA ~ 10A	Pending
	200mA ~ 10A	Pending

• Electrical Characteristics 電氣特性

UL248-1/14 % of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
200%* In	(5 sec Max)

IEC 60127 % of Ampere Rating(In)	Blowing Time
210%* In	(30 min Max)
275%* In	(750 ms~80 s)

• Materials 材質

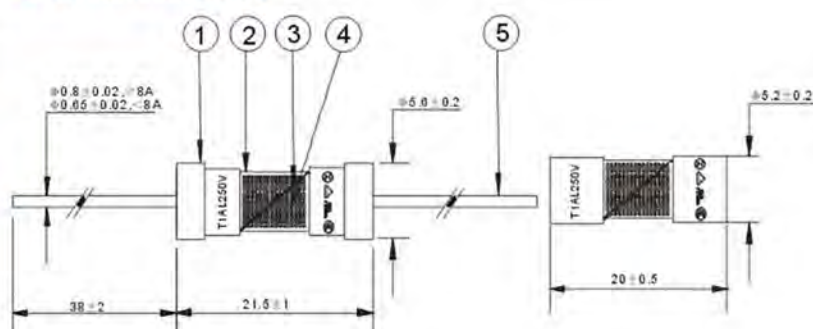
Part Name	Material
Cap	Nickel Plated Brass
Body	Non-Transparent Ceramic Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mV)	I ² T Melting Integral(A ² .S)
BTC0100A/B	100mA	250V/125V	7000	0.0005
BTC0125A/B	125mA	250V/125V	5000	0.0008
BTC0160A/B	160mA	250V/125V	4300	0.002
BTC0200A/B	200mA	250V/125V	3500	0.009
BTC0250A/B	250mA	250V/125V	2800	0.01
BTC0315A/B	315mA	250V/125V	2500	0.06
BTC0400A/B	400mA	250V/125V	2000	0.1
BTC0500A/B	500mA	250V/125V	1800	0.2
BTC0630A/B	630mA	250V/125V	1500	0.3
BTC0750A/B	750mA	250V/125V	1400	0.3
BTC0800A/B	800mA	250V/125V	1200	0.4
BTC1100A/B	1A	250V/125V	1000	0.6
BTC1125A/B	1.25A	250V/125V	800	0.8
BTC1150A/B	1.5A	250V/125V	600	1.0
BTC1160A/B	1.6A	250V/125V	600	1.2
BTC1200A/B	2A	250V/125V	500	3.4
BTC1250A/B	2.5A	250V/125V	400	7.2
BTC1300A/B	3A	250V/125V	350	8.5
BTC1315A/B	3.15A	250V/125V	350	9.2
BTC1350A/B	3.5A	250V/125V	350	9.2
BTC1400A/B	4A	250V/125V	300	14
BTC1500A/B	5A	250V/125V	250	25
BTC1600A/B	6A	250V/125V	250	25
BTC1630A/B	6.3A	250V/125V	200	64
BTC1700A/B	7A	250V/125V	200	81
BTC1800A/B	8A	250V/125V	200	96
BTC2100A/B	10A	250V/125V	200	106
BTC2120A/B	12A	250V/125V	180	125
BTC2125A/B	12.5A	250V/125V	180	135
BTC2150A/B	15A	250V/125V	160	160
BTC2160A/B	16A	250V/125V	160	170
BTC2200A/B	20A	250V/125V	150	200
BTC2250A/B	25A	250V/125V	120	240
BTC2300A/B	30A	250V/125V	100	300

• Dimensions 尺寸



FBC Series 5*20mm Fast-Acting Glass Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	200mA ~ 10A	E340427(JDYX2)
	200mA ~ 10A	E340427(JDYX8)
	200mA ~ 10A	2012010207569354
	1A, 2A, 3.15A	40037392
	200mA ~ 10A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time (200mA-6.3A)	Blowing Time (8A-10A)
210%* In	(30 min Max)	(30 min Max)
275%* In	(50 ms~2 s)	(50 ms~2 s)
400%* In	(10 ms~300 ms)	(10 ms~400 ms)
1000%* In	(20 ms Max)	(40 ms Max)

• Materials 材質

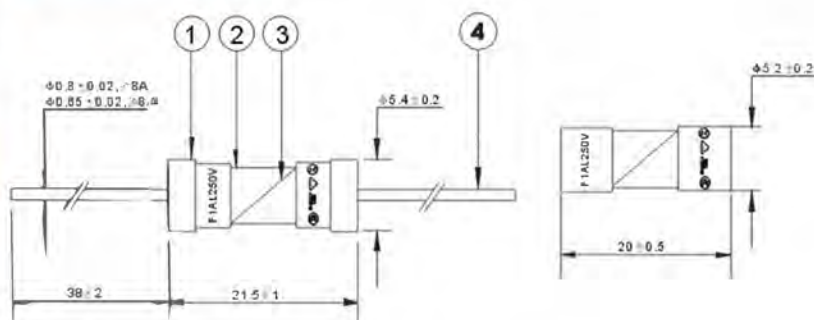
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mv)	I ² T Melting Integral(A ² .S)
FBC0100A/B	100mA	250V/125V	3500	0.0005
FBC0125A/B	125mA	250V/125V	2000	0.003
FBC0160A/B	160mA	250V/125V	2000	0.01
FBC0200A/B	200mA	250V/125V	1700	0.04
FBC0250A/B	250mA	250V/125V	1400	0.06
FBC0315A/B	315mA	250V/125V	1300	0.10
FBC0400A/B	400mA	250V/125V	1200	0.20
FBC0500A/B	500mA	250V/125V	1100	0.35
FBC0630A/B	630mA	250V/125V	650	0.50
FBC0800A/B	800mA	250V/125V	240	1.3
FBC1100A/B	1A	250V/125V	200	1.6
FBC1125A/B	1.25A	250V/125V	200	2.4
FBC1160A/B	1.6A	250V/125V	190	4.6
FBC1200A/B	2A	250V/125V	170	7.9
FBC1250A/B	2.5A	250V/125V	170	12
FBC1315A/B	3.15A	250V/125V	150	22
FBC1400A/B	4A	250V/125V	130	29
FBC1500A/B	5A	250V/125V	130	78
FBC1630A/B	6.3A	250V/125V	130	97
FBC1800A/B	8A	250V/125V	100	290
FBC2100A/B	10A	250V/125V	100	430
FBC2125A/B	12.5A	250V/125V	94	510
FBC2160A/B	16A	250V/125V	90	580
FBC2200A/B	20A	250V/125V	88	640
FBC2250A/B	25A	250V/125V	85	720
FBC2300A/B	31.5A	250V/125V	80	800

• Dimensions 尺寸



FBP Series 3.6*10mm Fast-Acting Glass Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	250mA ~ 5A	E340427(JDYX)
	250mA ~ 5A	E340427(JDYX7)
	250mA ~ 5A	CQC11012061981
	1A, 2A, 3.15A	40034581
	250mA ~ 5A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
210% * In	(30 min Max)
275% * In	(10 ms~3 s)
400% * In	(3 ms~300 ms)
1000% * In	(20 ms Max)

• Materials 材質

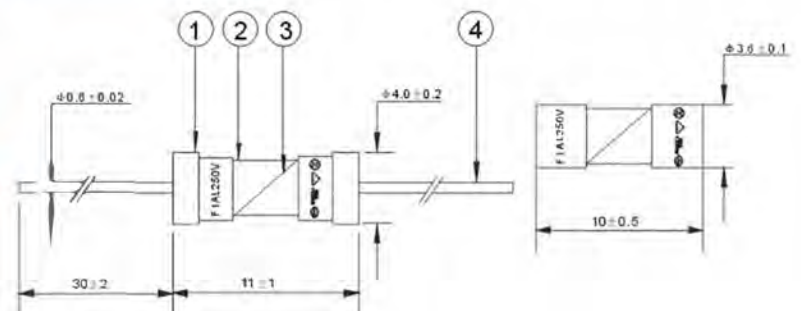
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mv)	I ² T Melting Integral(A ² .S)
FBP0050A/B	50mA	250V/125V	850	0.0003
FBP0063A/B	63mA	250V/125V	750	0.0007
FBP0080A/B	80mA	250V/125V	650	0.0009
FBP0100A/B	100mA	250V/125V	600	0.0022
FBP0125A/B	125mA	250V/125V	550	0.0064
FBP0160A/B	160mA	250V/125V	500	0.0090
FBP0200A/B	200mA	250V/125V	480	0.015
FBP0250A/B	250mA	250V/125V	440	0.02
FBP0315A/B	315mA	250V/125V	400	0.03
FBP0400A/B	400mA	250V/125V	370	0.05
FBP0500A/B	500mA	250V/125V	350	0.20
FBP0630A/B	630mA	250V/125V	320	0.3
FBP0800A/B	800mA	250V/125V	300	0.7
FBP1100A/B	1A	250V/125V	280	0.8
FBP1125A/B	1.25A	250V/125V	280	2.4
FBP1160A/B	1.6A	250V/125V	250	3.5
FBP1200A/B	2A	250V/125V	240	3.9
FBP1250A/B	2.5A	250V/125V	200	4.7
FBP1315A/B	3.15A	250V/125V	180	10.8
FBP1400A/B	4A	250V/125V	180	13.9
FBP1500A/B	5A	250V/125V	150	25.4
FBP1630A/B	6.3A	250V/125V	137	31
FBP1800A/B	8A	250V/125V	124	49
FBP2100A/B	10A	250V/125V	110	65
FBP2160A/B	16A	250V/125V	88	87
FBP2200A/B	20A	250V/125V	80	124

• Dimensions 尺寸



8x4mm FMS Series Fast-Acting Radial Lead Micro Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	50mA ~ 6.3A	E340427(JDYX2)
	50mA ~ 6.3A	E340427(JDYX8)
	50mA ~ 6.3A	Pending
	50mA ~ 6.3A	Pending
	50mA ~ 6.3A	Pending
	50mA ~ 6.3A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
150%* In	(60 min Minimum)
210%* In	(30 min Max)
275%* In	(10 ms~3 s)
400%* In	(3 ms~3 ms)
1000%* In	(20 ms Max)

• Materials 材質

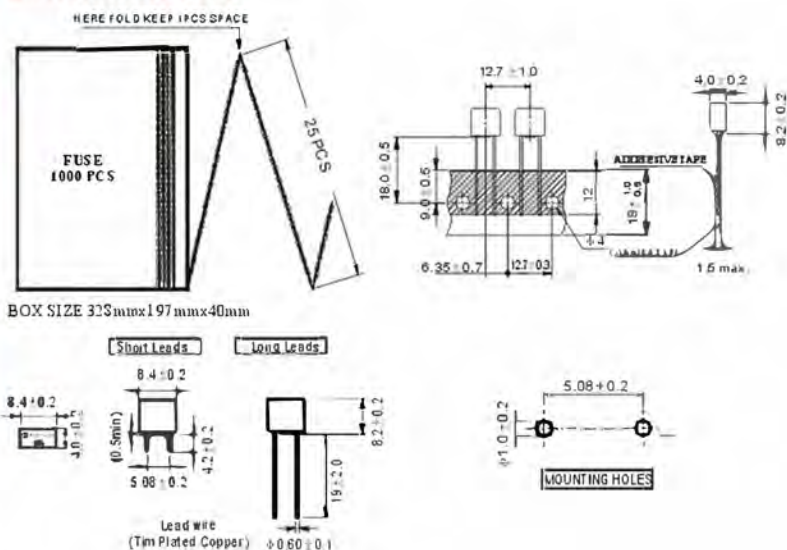
Part Name	Material
Cap&Base	Black/Brown Thermoplastic, UL 94 V-0
Lead wire	Copper, Tin-plated

• Packaging 包裝

Packing type	Description
Bulk	1,000PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mv)	I ² T Melting Integral(A ² .S)
FMS0050A	50mA	350V	3600	0.0008
FMS0100A	100mA	350V	3500	0.002
FMS0125A	125mA	350V	2000	0.008
FMS0160A	160mA	350V	2000	0.012
FMS0200A	200mA	350V	1700	0.04
FMS0250A	250mA	350V	1400	0.06
FMS0315A	315mA	350V	1300	0.10
FMS0400A	400mA	350V	1200	0.20
FMS0500A	500mA	350V	1100	0.35
FMS0630A	630mA	350V	650	0.50
FMS0800A	800mA	350V	240	1.3
FMS1100A	1A	350V	200	1.6
FMS1125A	1.25A	350V	200	2.4
FMS1160A	1.6A	350V	190	4.6
FMS1200A	2A	350V	170	7.9
FMS1250A	2.5A	350V	170	12
FMS1315A	3.15A	350V	150	22
FMS1400A	4A	350V	130	29
FMS1500A	5A	350V	130	78
FMS1630A	6.3A	350V	130	97
FMS1800A	8A	350V	100	290
FMS2100A	10A	350V	100	430

• Dimensions 尺寸



MFC Series 6*32mm Fast-Acting Glass Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	100mA ~ 30A	Pending
CULUS	100mA ~ 30A	Pending
CCC	100mA ~ 30A	Pending
JET	100mA ~ 30A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
135%* In	(1 hour Max)
200%* In	(5 sec Max)

• Materials 材質

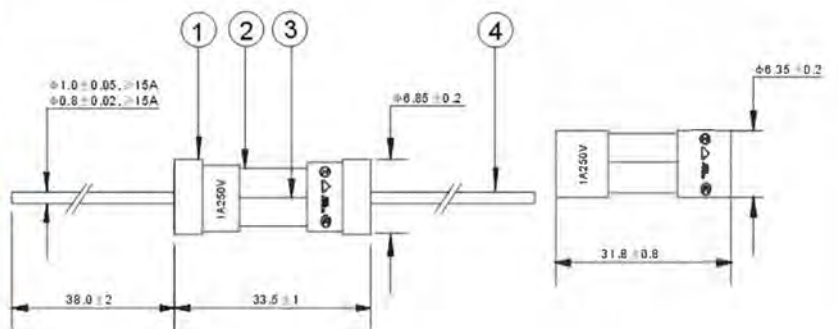
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	200PCS per bag
Box	4,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² .S)
MFC0100A/B	100mA	250V/125V	0000A@125V AC (100mA~10A);	0.003
MFC0160A/B	160mA	250V/125V		0.008
MFC0200A/B	200mA	250V/125V		0.02
MFC0250A/B	250mA	250V/125V		0.026
MFC0300A/B	300mA	250V/125V		0.047
MFC0315A/B	315mA	250V/125V		0.055
MFC0350A/B	350mA	250V/125V		0.072
MFC0400A/B	400mA	250V/125V		0.10
MFC0500A/B	500mA	250V/125V		0.16
MFC0630A/B	630mA	250V/125V		0.28
MFC0750A/B	750mA	250V/125V	35A@250V AC (100mA~1A);	0.49
MFC0800A/B	800mA	250V/125V		0.60
MFC1100A/B	1A	250V/125V	100A@250V AC (1.25A~3.5A);	0.8
MFC1125A/B	1.25A	250V/125V		1.6
MFC1150A/B	1.5A	250V/125V	200A@250V AC (1A~10A).	2.5
MFC1160A/B	1.6A	250V/125V		3.2
MFC1200A/B	2A	250V/125V		5.6
MFC1250A/B	2.5A	250V/125V		7.6
MFC1300A/B	3A	250V/125V		14
MFC1315A/B	3.15A	250V/125V		19
MFC1350A/B	3.5A	250V/125V		20
MFC1400A/B	4A	250V/125V		25
MFC1500A/B	5A	250V/125V		42
MFC1600A/B	6A	250V/125V		80
MFC1630A/B	6.3A	250V/125V		96
MFC1800A/B	8A	250V/125V		200
MFC2100A/B	10A	250V/125V		320
MFC2120A/B	12A	250V/125V		470
MFC2150A/B	15A	250V/125V		650
MFC2200A/B	20A	250V/125V		870
MFC2250A/B	25A	250V/125V		1320
MFC2300A/B	30A	250V/125V		1820

• Dimensions 尺寸



MTC Series 6*32mm Time-Lag Glass Tube Fuse



Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	100mA ~ 30A	Pending
	100mA ~ 30A	Pending
	100mA ~ 30A	Pending
	100mA ~ 30A	Pending

Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
135% * In	(1 hour Max)
200% * In	(120 sec Max)

Materials 材質

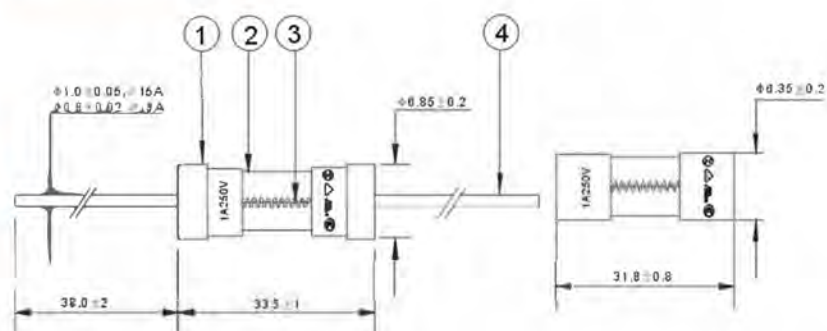
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

Packaging 包裝

Packing type	Description
Bulk	200PCS per bag
Box	4,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² ·S)
MTC0100A/B	100mA	250V/125V	10000A@12.5V AC (100mA~10A), 35A@250V AC (100mA~1A), 100A@250V AC (1.25A~3.5A), 200A@250V AC (4A~10A).	0.028
MTC0160A/B	160mA	250V/125V		0.075
MTC0200A/B	200mA	250V/125V		0.12
MTC0250A/B	250mA	250V/125V		0.15
MTC0300A/B	300mA	250V/125V		0.19
MTC0315A/B	315mA	250V/125V		0.22
MTC0350A/B	350mA	250V/125V		0.29
MTC0400A/B	400mA	250V/125V		0.28
MTC0500A/B	500mA	250V/125V		0.52
MTC0630A/B	630mA	250V/125V		0.87
MTC0750A/B	750mA	250V/125V		1.1
MTC0800A/B	800mA	250V/125V		1.4
MTC1100A/B	1A	250V/125V		3.5
MTC1125A/B	1.25A	250V/125V		7.6
MTC1150A/B	1.5A	250V/125V		9.1
MTC1160A/B	1.6A	250V/125V		13
MTC1200A/B	2A	250V/125V		20
MTC1250A/B	2.5A	250V/125V		39
MTC1300A/B	3A	250V/125V		61
MTC1315A/B	3.15A	250V/125V		56
MTC1350A/B	3.5A	250V/125V		70
MTC1400A/B	4A	250V/125V		104
MTC1500A/B	5A	250V/125V		148
MTC1600A/B	6A	250V/125V		173
MTC1630A/B	6.3A	250V/125V		192
MTC1800A/B	8A	250V/125V		380
MTC2100A/B	10A	250V/125V		580
MTC2120A/B	12A	250V/125V		723
MTC2150A/B	15A	250V/125V		934
MTC2200A/B	20A	250V/125V		1280
MTC2250A/B	25A	250V/125V		1678
MTC2300A/B	30A	250V/125V		2036

Dimensions 尺寸



8x4mm MTS Series Time-Lag Radial Lead Micro Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	50mA ~ 6.3A	E340427(JDYX2)
	50mA ~ 6.3A	E340427(JDYX8)
	50mA ~ 6.3A	40039420
	50mA ~ 6.3A	CQC11012061981
	50mA ~ 6.3A	PSE13020693
	50mA ~ 6.3A	SU05045-14001/2/3

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
150%* In	(60 min Minimum)
210%* In	(2 min Max)
275%* In	(400 ms~10 s)
400%* In	(150ms~3s)
1000%* In	(20 ms~150 ms)

• Materials 材質

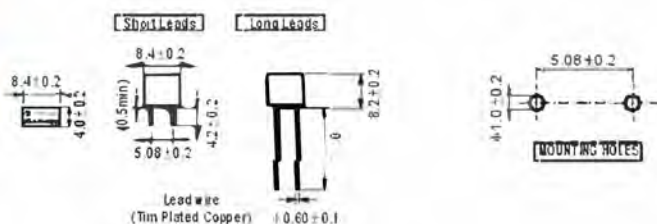
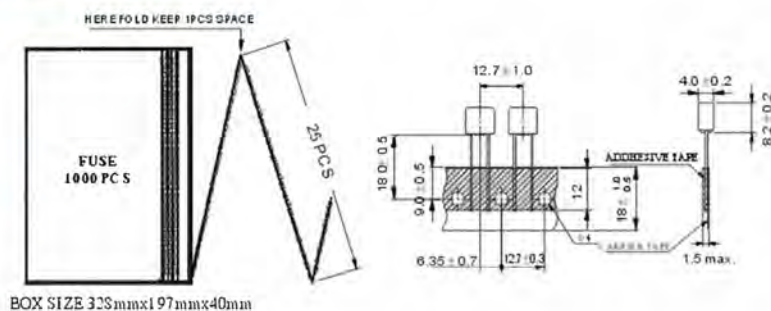
Part Name	Material
Cap&Base	Black/Brown Thermoplastic, UL 94 V-0
Lead wire	Copper, Tin-plated

• Packaging 包裝

Packing Type	Description
Bulk	1,000PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mV)	I ² T Melting Integral(A ² .S)
MTS0050A	50mA	250V	555	0.02
MTS0100A	100mA	250V	355	0.11
MTS0125A	125mA	250V	323	0.12
MTS0160A	160mA	250V	296	0.17
MTS0200A	200mA	250V	272	0.21
MTS0250A	250mA	250V	251	0.41
MTS0315A	315mA	250V	237	0.63
MTS0400A	400mA	250V	211	1.22
MTS0500A	500mA	250V	202	2.34
MTS0630A	630mA	250V	191	2.88
MTS0800A	800mA	250V	172	3.92
MTS1100A	1A	250V	200	5.77
MTS1125A	1.25A	250V	200	8.34
MTS1160A	1.6A	250V	190	13.60
MTS1200A	2A	250V	170	25.90
MTS1250A	2.5A	250V	170	42
MTS1315A	3.15A	250V	150	58
MTS1400A	4A	250V	130	92
MTS1500A	5A	250V	130	140
MTS1630A	6.3A	250V	130	330
MTS1800A	8A	250V	100	470
MTS2100A	10A	250V	100	620

• Dimensions 尺寸



PFU Series 3.6*10mm Fast-Acting Ceramic Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	250mA ~ 5A	E340427(JDYX)
	250mA ~ 5A	E340427(JDYX7)
	250mA ~ 5A	Pending
	250mA ~ 5A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
200%* In	(120 sec Max)

• Materials 材質

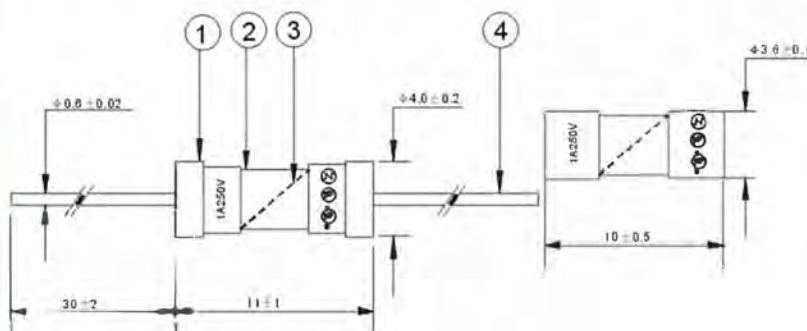
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² .S)
PFU0100A/B	100mA	250V/125V	50A@125V/250VAC	0.0015
PFU0125A/B	125mA	250V/125V	50A@125V/250VAC	0.0025
PFU0160A/B	160mA	250V/125V	50A@125V/250VAC	0.0042
PFU0200A/B	200mA	250V/125V	50A@125V/250VAC	0.0065
PFU0250A/B	250mA	250V/125V	50A@125V/250VAC	0.010
PFU0300A/B	300mA	250V/125V	50A@125V/250VAC	0.018
PFU0315A/B	315mA	250V/125V	50A@125V/250VAC	0.020
PFU0350A/B	350mA	250V/125V	50A@125V/250VAC	0.025
PFU0400A/B	400mA	250V/125V	50A@125V/250VAC	0.035
PFU0500A/B	500mA	250V/125V	50A@125V/250VAC	0.060
PFU0630A/B	630mA	250V/125V	50A@125V/250VAC	0.150
PFU0750A/B	750mA	250V/125V	50A@125V/250VAC	0.350
PFU0800A/B	800mA	250V/125V	50A@125V/250VAC	0.5
PFU1100A/B	1A	250V/125V	50A@125V/250VAC	0.6
PFU1125A/B	1.25A	250V/125V	50A@125V/250VAC	1.2
PFU1150A/B	1.5A	250V/125V	50A@125V/250VAC	1.6
PFU1160A/B	1.6A	250V/125V	50A@125V/250VAC	1.8
PFU1200A/B	2A	250V/125V	50A@125V/250VAC	2.4
PFU1250A/B	2.5A	250V/125V	50A@125V/250VAC	3.2
PFU1300A/B	3A	250V/125V	50A@125V/250VAC	6.0
PFU1315A/B	3.15A	250V/125V	50A@125V/250VAC	7.0
PFU1350A/B	3.5A	250V/125V	50A@125V/250VAC	7.5
PFU1400A/B	4A	250V/125V	50A@125V/250VAC	8.0
PFU1500A/B	5A	250V/125V	50A@125V/250VAC	15
PFU1600A/B	6A	250V/125V	50A@125V/250VAC	24
PFU1630A/B	6.3A	250V/125V	50A@125V/250VAC	28
PFU1700A/B	7A	250V/125V	50A@125V/250VAC	36
PFU1800A/B	8A	250V/125V	50A@125V/250VAC	42
PFU2100A/B	10A	250V/125V	50A@125V/250VAC	50

• Dimensions 尺寸



PTU Series 3.6*10mm Time-Lag Ceramic Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	250mA ~ 5A	E340427(JDYX)
	250mA ~ 5A	E340427(JDYX7)
	250mA ~ 5A	Pending
	250mA ~ 5A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
200%* In	(5 sec Max)

• Materials 材質

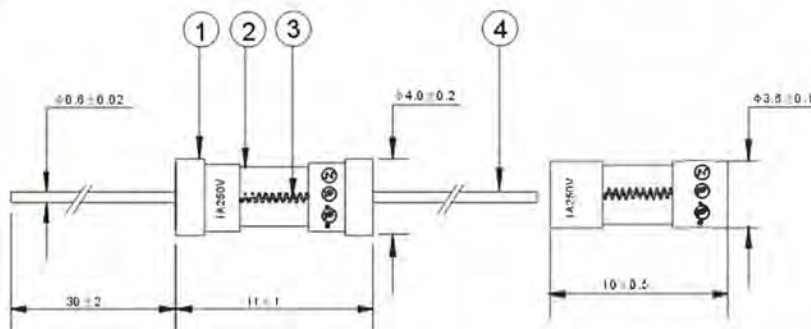
Part Name	Material
Cap	Nickel Plated Brass
Body	Non-Transparent Ceramic Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² .S)
PTU0100A/B	100mA	250V/125V	50A@125V/250VAC	0.0042
PTU0125A/B	125mA	250V/125V	50A@125V/250VAC	0.010
PTU0160A/B	160mA	250V/125V	50A@125V/250VAC	0.025
PTU0200A/B	200mA	250V/125V	50A@125V/250VAC	0.035
PTU0250A/B	250mA	250V/125V	50A@125V/250VAC	0.056
PTU0300A/B	300mA	250V/125V	50A@125V/250VAC	0.10
PTU0315A/B	315mA	250V/125V	50A@125V/250VAC	0.12
PTU0350A/B	350mA	250V/125V	50A@125V/250VAC	0.15
PTU0400A/B	400mA	250V/125V	50A@125V/250VAC	0.25
PTU0500A/B	500mA	250V/125V	50A@125V/250VAC	0.35
PTU0630A/B	630mA	250V/125V	50A@125V/250VAC	0.55
PTU0750A/B	750mA	250V/125V	50A@125V/250VAC	0.70
PTU0800A/B	800mA	250V/125V	50A@125V/250VAC	1.1
PTU1100A/B	1A	250V/125V	50A@125V/250VAC	2
PTU1125A/B	1.25A	250V/125V	50A@125V/250VAC	3.8
PTU1150A/B	1.5A	250V/125V	50A@125V/250VAC	4.2
PTU1160A/B	1.6A	250V/125V	50A@125V/250VAC	6.2
PTU1200A/B	2A	250V/125V	50A@125V/250VAC	13
PTU1250A/B	2.5A	250V/125V	50A@125V/250VAC	18
PTU1300A/B	3A	250V/125V	50A@125V/250VAC	28
PTU1315A/B	3.15A	250V/125V	50A@125V/250VAC	32
PTU1350A/B	3.5A	250V/125V	50A@125V/250VAC	39
PTU1400A/B	4A	250V/125V	50A@125V/250VAC	43
PTU1500A/B	5A	250V/125V	50A@125V/250VAC	58
PTU1600A/B	6A	250V/125V	50A@125V/250VAC	70
PTU1630A/B	6.3A	250V/125V	50A@125V/250VAC	81
PTU1700A/B	7A	250V/125V	50A@125V/250VAC	92
PTU1800A/B	8A	250V/125V	50A@125V/250VAC	106
PTU2100A/B	10A	250V/125V	50A@125V/250VAC	120

• Dimensions 尺寸



RFP Series 4 x 11mm Fast-Acting Subminiature Fuses



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	100mA ~ 10A	E340427(JDYX2)
	100mA ~ 10A	E340427(JDYX8)

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
200% * In	(60 sec Max)

• Materials 材質

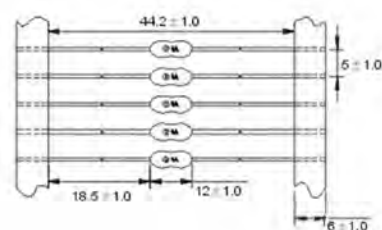
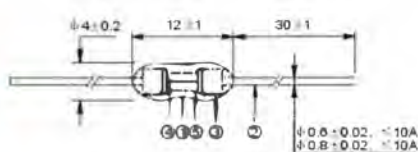
Part Name	Material
Body Encapsulated	Epoxy Coated
Lead wire	Tin Plated Copper
Cap	Nickel Plated Brass
Fuse element	Alloy wire
Body	Non-Transparent Ceramic Tube

• Packaging 包裝

Packing type	Description
Bulk	1,000PCS per bag
Tape	2,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity
RFP0100	100mA	350V	50A@350VAC
RFP0125	125mA	350V	50A@350VAC
RFP0160	160mA	350V	50A@350VAC
RFP0200	200mA	350V	50A@350VAC
RFP0250	250mA	350V	50A@350VAC
RFP0300	300mA	350V	50A@350VAC
RFP0315	315mA	350V	50A@350VAC
RFP0350	350mA	350V	50A@350VAC
RFP0375	375mA	350V	50A@350VAC
RFP0400	400mA	350V	50A@350VAC
RFP0500	500mA	350V	50A@350VAC
RFP0600	600mA	350V	50A@350VAC
RFP0630	630mA	350V	50A@350VAC
RFP0700	700mA	350V	50A@350VAC
RFP0750	750mA	350V	50A@350VAC
RFP0800	800mA	350V	50A@350VAC
RFP1100	1A	350V	50A@350VAC
RFP1125	1.25A	350V	50A@350VAC
RFP1150	1.5A	350V	50A@350VAC
RFP1160	1.6A	350V	50A@350VAC
RFP1200	2A	350V	50A@350VAC
RFP1250	2.5A	350V	50A@350VAC
RFP1300	3A	350V	50A@350VAC
RFP1315	3.15A	350V	50A@350VAC
RFP1350	3.5A	350V	50A@350VAC
RFP1400	4A	350V	50A@350VAC
RFP1500	5A	350V	50A@350VAC
RFP1600	6A	350V	50A@350VAC
RFP1630	6.3A	350V	50A@350VAC
RFP1700	7A	350V	50A@350VAC
RFP1800	8A	350V	50A@350VAC
RFP1900	9A	350V	50A@350VAC
RFP2100	10A	350V	50A@350VAC
RFP2120	12A	350V	50A@350VAC
RFP2150	15A	350V	50A@350VAC

• Dimensions 尺寸



RTP Series 4 x 11mm Time-Lag Subminiature Fuses



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	100mA ~ 10A	E340427(JDYX2)
	100mA ~ 10A	E340427(JDYX8)

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
200% * In	(60 sec Max)

• Materials 材質

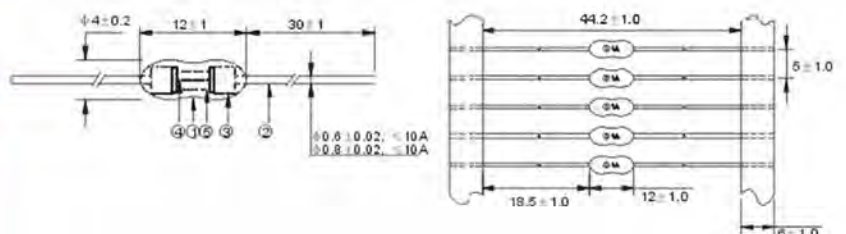
Part Name	Material
Body Encapsulated	Epoxy Coated
Lead wire	Tin Plated Copper
Cap	Nickel Plated Brass
Fuse element	Alloy wire
Body	Non-Transparent Ceramic Tube

• Packaging 包裝

Packing type	Description
Bulk	1,000PCS per bag
Tape	2,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity
RTP0100	100mA	350V	50A@350VAC
RTP0125	125mA	350V	50A@350VAC
RTP0160	160mA	350V	50A@350VAC
RTP0200	200mA	350V	50A@350VAC
RTP0250	250mA	350V	50A@350VAC
RTP0300	300mA	350V	50A@350VAC
RTP0315	315mA	350V	50A@350VAC
RTP0350	350mA	350V	50A@350VAC
RTP0375	375mA	350V	50A@350VAC
RTP0400	400mA	350V	50A@350VAC
RTP0500	500mA	350V	50A@350VAC
RTP0600	600mA	350V	50A@350VAC
RTP0630	630mA	350V	50A@350VAC
RTP0700	700mA	350V	50A@350VAC
RTP0750	750mA	350V	50A@350VAC
RTP0800	800mA	350V	50A@350VAC
RTP1100	1A	350V	50A@350VAC
RTP1125	1.25A	350V	50A@350VAC
RTP1150	1.5A	350V	50A@350VAC
RTP1160	1.6A	350V	50A@350VAC
RTP1200	2A	350V	50A@350VAC
RTP1250	2.5A	350V	50A@350VAC
RTP1300	3A	350V	50A@350VAC
RTP1315	3.15A	350V	50A@350VAC
RTP1350	3.5A	350V	50A@350VAC
RTP1400	4A	350V	50A@350VAC
RTP1500	5A	350V	50A@350VAC
RTP1600	6A	350V	50A@350VAC
RTP1630	6.3A	350V	50A@350VAC
RTP1700	7A	350V	50A@350VAC
RTP1800	8A	350V	50A@350VAC
RTP1900	9A	350V	50A@350VAC
RTP2100	10A	350V	50A@350VAC
RTP2120	12A	350V	50A@350VAC
RTP2150	15A	350V	50A@350VAC

• Dimensions 尺寸



SFB Series 3 x 7mm Fast-Acting Subminiature Fuses



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	100mA ~ 6.3A	E340427(JDYX2)
	100mA ~ 6.3A	E340427(JDYX8)
	100mA ~ 6.3A	Pending
	100mA ~ 6.3A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating (In)	Blowing Time
100% * In	(4 hours Min)
200% * In	(60 sec Max)

• Materials 材質

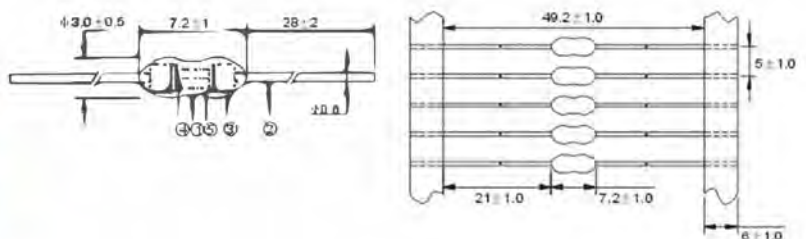
Part Name	Material
Body Encapsulated	Epoxy Coated
Lead wire	Tin Plated Copper
Cap	Nickel Plated Brass
Fuse element	Alloy wire
Body	Non-Transparent Ceramic Tube

• Packaging 包裝

Packing type	Description
Bulk	1,000PCS per bag
Tape	3,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity
SFB0100A/B	100mA	250V/125V	50A@125V/250VAC
SFB0125A/B	125mA	250V/125V	50A@125V/250VAC
SFB0160A/B	160mA	250V/125V	50A@125V/250VAC
SFB0200A/B	200mA	250V/125V	50A@125V/250VAC
SFB0250A/B	250mA	250V/125V	50A@125V/250VAC
SFB0300A/B	300mA	250V/125V	50A@125V/250VAC
SFB0315A/B	315mA	250V/125V	50A@125V/250VAC
SFB0350A/B	350mA	250V/125V	50A@125V/250VAC
SFB0400A/B	400mA	250V/125V	50A@125V/250VAC
SFB0500A/B	500mA	250V/125V	50A@125V/250VAC
SFB0630A/B	630mA	250V/125V	50A@125V/250VAC
SFB0750A/B	750mA	250V/125V	50A@125V/250VAC
SFB0800A/B	800mA	250V/125V	50A@125V/250VAC
SFB1100A/B	1A	250V/125V	50A@125V/250VAC
SFB1125A/B	1.25A	250V/125V	50A@125V/250VAC
SFB1150A/B	1.5A	250V/125V	50A@125V/250VAC
SFB1160A/B	1.6A	250V/125V	50A@125V/250VAC
SFB1200A/B	2A	250V/125V	50A@125V/250VAC
SFB1250A/B	2.5A	250V/125V	50A@125V/250VAC
SFB1300A/B	3A	250V/125V	50A@125V/250VAC
SFB1315A/B	3.15A	250V/125V	50A@125V/250VAC
SFB1350A/B	3.5A	250V/125V	50A@125V/250VAC
SFB1400A/B	4A	250V/125V	50A@125V/250VAC
SFB1500A/B	5A	250V/125V	50A@125V/250VAC
SFB1630A/B	6.3A	250V/125V	50A@125V/250VAC

• Dimensions 尺寸



SFC Series 5*20mm Fast-Acting Glass Tube Fuse



Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	200mA ~ 10A	E340427(JDYX)
cUL US	200mA ~ 10A	E340427(JDYX7)
JET	200mA ~ 10A	Pending
K	200mA ~ 10A	Pending

Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
135% * In	(1 hour Max)
200% * In	(5 sec Max)

Materials 材質

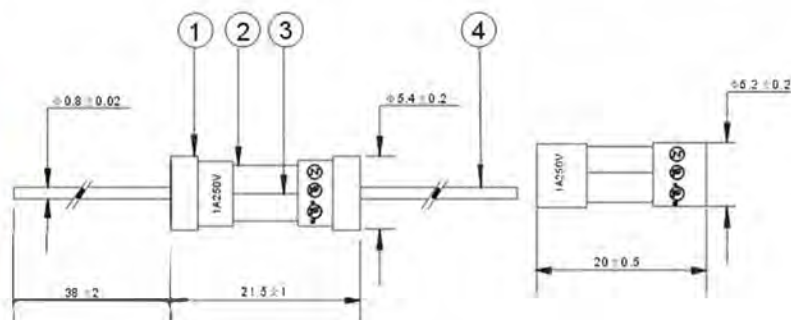
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² .S)
SFC0100A/B	100mA	250V/125V	10000A@125 VAC (200mA~10A);	0.002
SFC0125A/B	125mA	250V/125V		0.003
SFC0160A/B	160mA	250V/125V		0.005
SFC0200A/B	200mA	250V/125V		0.01
SFC0250A/B	250mA	250V/125V		0.02
SFC0300A/B	300mA	250V/125V		0.04
SFC0315A/B	315mA	250V/125V		0.045
SFC0350A/B	350mA	250V/125V		0.055
SFC0400A/B	400mA	250V/125V		0.07
SFC0500A/B	500mA	250V/125V		0.1
SFC0630A/B	630mA	250V/125V	35A@250V AC (200mA~1A);	0.2
SFC0750A/B	750mA	250V/125V		0.35
SFC0800A/B	800mA	250V/125V	100A@250V AC (1.25A~3.5A);	0.45
SFC1100A/B	1A	250V/125V		0.9
SFC1125A/B	1.25A	250V/125V	200A@250V AC (1A~10A);	1.3
SFC1150A/B	1.5A	250V/125V		1.6
SFC1160A/B	1.6A	250V/125V		2.5
SFC1200A/B	2A	250V/125V		5.8
SFC1250A/B	2.5A	250V/125V		7.6
SFC1300A/B	3A	250V/125V		8.1
SFC1315A/B	3.15A	250V/125V		11
SFC1350A/B	3.5A	250V/125V		19
SFC1400A/B	4A	250V/125V		28
SFC1500A/B	5A	250V/125V		40
SFC1600A/B	6A	250V/125V		50
SFC1630A/B	6.3A	250V/125V		64
SFC1700A/B	7A	250V/125V		107
SFC1800A/B	8A	250V/125V		133
SFC2100A/B	10A	250V/125V		242
SFC2120A/B	12A	250V/125V		268
SFC2150A/B	15A	250V/125V		287
SFC2160A/B	16A	250V/125V		302
SFC2200A/B	20A	250V/125V		347
SFC2250A/B	25A	250V/125V		390
SFC2300A/B	30A	250V/125V		435

Dimensions 尺寸



SFP Series 3.6*10mm Fast-Acting Glass Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	250mA ~ 5A	E340427(JDYX)
cUL us	250mA ~ 5A	E340427(JDYX7)
JET	250mA ~ 5A	Pending
KE	250mA ~ 5A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
135%* In	(1 hour Max)
200%* In	(120 sec Max)

• Materials 材質

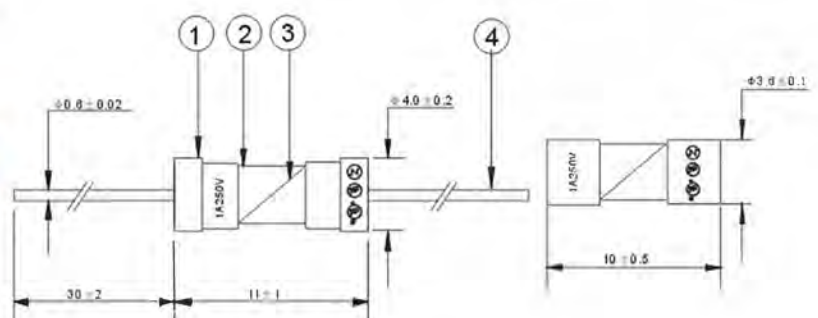
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² .S)
SFP0100A/B	100mA	250V/125V	50A@125V/250VAC	0.0015
SFP0125A/B	125mA	250V/125V	50A@125V/250VAC	0.0025
SFP0160A/B	160mA	250V/125V	50A@125V/250VAC	0.0042
SFP0200A/B	200mA	250V/125V	50A@125V/250VAC	0.0065
SFP0250A/B	250mA	250V/125V	50A@125V/250VAC	0.010
SFP0300A/B	300mA	250V/125V	50A@125V/250VAC	0.018
SFP0315A/B	315mA	250V/125V	50A@125V/250VAC	0.020
SFP0350A/B	350mA	250V/125V	50A@125V/250VAC	0.025
SFP0400A/B	400mA	250V/125V	50A@125V/250VAC	0.035
SFP0500A/B	500mA	250V/125V	50A@125V/250VAC	0.060
SFP0630A/B	630mA	250V/125V	50A@125V/250VAC	0.150
SFP0750A/B	750mA	250V/125V	50A@125V/250VAC	0.350
SFP0800A/B	800mA	250V/125V	50A@125V/250VAC	0.5
SFP1100A/B	1A	250V/125V	50A@125V/250VAC	0.6
SFP1125A/B	1.25A	250V/125V	50A@125V/250VAC	1.2
SFP1150A/B	1.5A	250V/125V	50A@125V/250VAC	1.6
SFP1160A/B	1.6A	250V/125V	50A@125V/250VAC	1.8
SFP1200A/B	2A	250V/125V	50A@125V/250VAC	2.4
SFP1250A/B	2.5A	250V/125V	50A@125V/250VAC	3.2
SFP1300A/B	3A	250V/125V	50A@125V/250VAC	6.0
SFP1315A/B	3.15A	250V/125V	50A@125V/250VAC	7.0
SFP1350A/B	3.5A	250V/125V	50A@125V/250VAC	7.5
SFP1400A/B	4A	250V/125V	50A@125V/250VAC	8.0
SFP1500A/B	5A	250V/125V	50A@125V/250VAC	15
SFP1600A/B	6A	250V/125V	50A@125V/250VAC	24
SFP1630A/B	6.3A	250V/125V	50A@125V/250VAC	28
SFP1700A/B	7A	250V/125V	50A@125V/250VAC	36
SFP1800A/B	8A	250V/125V	50A@125V/250VAC	40
SFP2100A/B	10A	250V/125V	50A@125V/250VAC	68

• Dimensions 尺寸



STB Series 3 x 7mm Time-Lag Subminiature Fuses



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	100mA ~ 6.3A	E340427(JDYX2)
	100mA ~ 6.3A	E340427(JDYX8)
	100mA ~ 6.3A	Pending
	100mA ~ 6.3A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
200% * In	(60 sec Max)

• Materials 材質

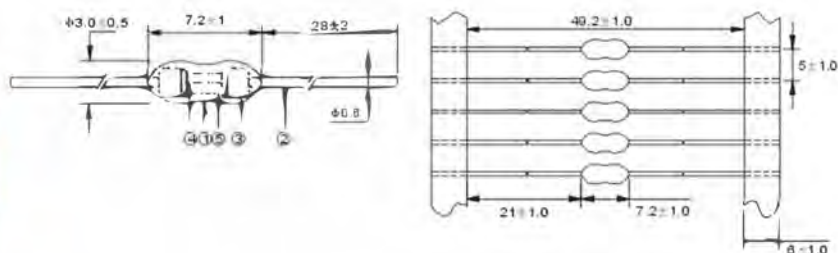
Part Name	Material
Body Encapsulated	Epoxy Coated
Lead wire	Tin Plated Copper
Cap	Nickel Plated Brass
Fuse element	Alloy wire
Body	Non-Transparent Ceramic Tube

• Packaging 包裝

Packing type	Description
Bulk	1,000PCS per bag
Tape	3,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity
STB0100A/B	100mA	250V/125V	50A@125V/250VAC
STB0125A/B	125mA	250V/125V	50A@125V/250VAC
STB0160A/B	160mA	250V/125V	50A@125V/250VAC
STB0200A/B	200mA	250V/125V	50A@125V/250VAC
STB0250A/B	250mA	250V/125V	50A@125V/250VAC
STB0300A/B	300mA	250V/125V	50A@125V/250VAC
STB0315A/B	315mA	250V/125V	50A@125V/250VAC
STB0350A/B	350mA	250V/125V	50A@125V/250VAC
STB0400A/B	400mA	250V/125V	50A@125V/250VAC
STB0500A/B	500mA	250V/125V	50A@125V/250VAC
STB0630A/B	630mA	250V/125V	50A@125V/250VAC
STB0750A/B	750mA	250V/125V	50A@125V/250VAC
STB0800A/B	800mA	250V/125V	50A@125V/250VAC
STB1100A/B	1A	250V/125V	50A@125V/250VAC
STB1125A/B	1.25A	250V/125V	50A@125V/250VAC
STB1150A/B	1.5A	250V/125V	50A@125V/250VAC
STB1160A/B	1.6A	250V/125V	50A@125V/250VAC
STB1200A/B	2A	250V/125V	50A@125V/250VAC
STB1250A/B	2.5A	250V/125V	50A@125V/250VAC
STB1300A/B	3A	250V/125V	50A@125V/250VAC
STB1315A/B	3.15A	250V/125V	50A@125V/250VAC
STB1350A/B	3.5A	250V/125V	50A@125V/250VAC
STB1400A/B	4A	250V/125V	50A@125V/250VAC
STB1500A/B	5A	250V/125V	50A@125V/250VAC
STB1630A/B	6.3A	250V/125V	50A@125V/250VAC

• Dimensions 尺寸



STC Series 5*20mm Time-Lag Glass Tube Fuse



Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	200mA ~ 10A	E340427(JDYX)
cUL US	200mA ~ 10A	E340427(JDYX7)
PS JET	200mA ~ 10A	Pending
KE	200mA ~ 10A	Pending

Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100%* In	(4 hours Min)
135%* In	(1 hour Max)
200%* In	(120 sec Max)

Materials 材質

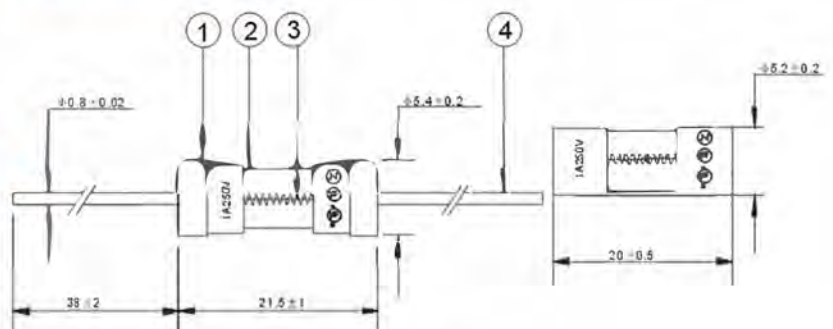
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Box	5,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	FT Melting Integral(A².S)
STC0100A/B	100mA	250V/125V	10000A@125 V AC (200mA~10A);	0.005
STC0125A/B	125mA	250V/125V		0.01
STC0160A/B	160mA	250V/125V		0.02
STC0200A/B	200mA	250V/125V		0.04
STC0250A/B	250mA	250V/125V		0.06
STC0300A/B	300mA	250V/125V		0.08
STC0315A/B	315mA	250V/125V		0.10
STC0350A/B	350mA	250V/125V		0.13
STC0400A/B	400mA	250V/125V		0.19
STC0500A/B	500mA	250V/125V		0.32
STC0630A/B	630mA	250V/125V	35A@250V AC (200mA~1A);	0.54
STC0750A/B	750mA	250V/125V		0.93
STC0800A/B	800mA	250V/125V	100A@250V AC (1.25A~3.5A);	1.16
STC1100A/B	1A	250V/125V		2.5
STC1125A/B	1.25A	250V/125V	200A@250V AC (1A~10A).	4.2
STC1150A/B	1.5A	250V/125V		6.2
STC1160A/B	1.6A	250V/125V		11
STC1200A/B	2A	250V/125V		20
STC1250A/B	2.5A	250V/125V		39
STC1300A/B	3A	250V/125V		64
STC1315A/B	3.15A	250V/125V		69
STC1350A/B	3.5A	250V/125V		70
STC1400A/B	4A	250V/125V		83
STC1500A/B	5A	250V/125V		90
STC1600A/B	6A	250V/125V		102
STC1630A/B	6.3A	250V/125V		126
STC1700A/B	7A	250V/125V		129
STC1800A/B	8A	250V/125V		147
STC2100A/B	10A	250V/125V		221
STC2120A/B	12A	250V/125V		240
STC2150A/B	15A	250V/125V		287
STC2160A/B	16A	250V/125V		305
STC2200A/B	20A	250V/125V		336
STC2250A/B	25A	250V/125V		362
STC2300A/B	30A	250V/125V		400

Dimensions 尺寸



STP Series 3.6*10mm Time-Lag Glass Tube Fuse



Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
UL	250mA ~ 5A	E340427(JDYX)
cULus	250mA ~ 5A	E340427(JDYX7)
JET	250mA ~ 5A	Pending
KE	250mA ~ 5A	Pending

Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
100% * In	(4 hours Min)
135% * In	(1 hour Max)
200% * In	(120 sec Max)

Materials 材質

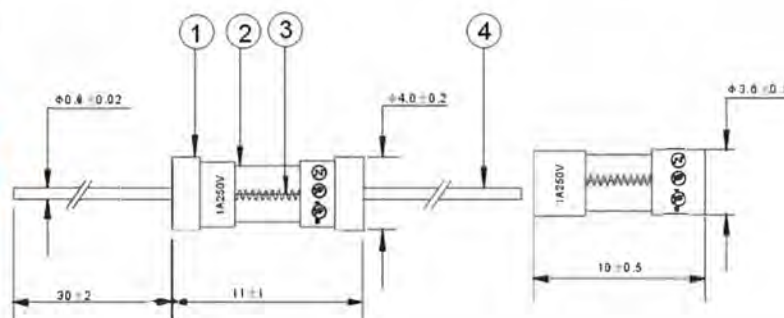
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Breaking Capacity	I ² T Melting Integral(A ² .S)
STP0100A/B	100mA	250V/125V	50A@125V/250VAC	0.0042
STP0125A/B	125mA	250V/125V	50A@125V/250VAC	0.010
STP0160A/B	160mA	250V/125V	50A@125V/250VAC	0.025
STP0200A/B	200mA	250V/125V	50A@125V/250VAC	0.035
STP0250A/B	250mA	250V/125V	50A@125V/250VAC	0.056
STP0300A/B	300mA	250V/125V	50A@125V/250VAC	0.10
STP0315A/B	315mA	250V/125V	50A@125V/250VAC	0.12
STP0350A/B	350mA	250V/125V	50A@125V/250VAC	0.15
STP0400A/B	400mA	250V/125V	50A@125V/250VAC	0.25
STP0500A/B	500mA	250V/125V	50A@125V/250VAC	0.35
STP0630A/B	630mA	250V/125V	50A@125V/250VAC	0.55
STP0750A/B	750mA	250V/125V	50A@125V/250VAC	0.70
STP0800A/B	800mA	250V/125V	50A@125V/250VAC	1.1
STP1100A/B	1A	250V/125V	50A@125V/250VAC	2
STP1125A/B	1.25A	250V/125V	50A@125V/250VAC	3.8
STP1150A/B	1.5A	250V/125V	50A@125V/250VAC	4.2
STP1160A/B	1.6A	250V/125V	50A@125V/250VAC	6.2
STP1200A/B	2A	250V/125V	50A@125V/250VAC	13
STP1250A/B	2.5A	250V/125V	50A@125V/250VAC	18
STP1300A/B	3A	250V/125V	50A@125V/250VAC	28
STP1315A/B	3.15A	250V/125V	50A@125V/250VAC	32
STP1350A/B	3.5A	250V/125V	50A@125V/250VAC	39
STP1400A/B	4A	250V/125V	50A@125V/250VAC	43
STP1500A/B	5A	250V/125V	50A@125V/250VAC	58
STP1600A/B	6A	250V/125V	50A@125V/250VAC	70
STP1630A/B	6.3A	250V/125V	50A@125V/250VAC	81
STP1700A/B	7A	250V/125V	50A@125V/250VAC	102
STP1800A/B	8A	250V/125V	50A@125V/250VAC	131
STP2100A/B	10A	250V/125V	50A@125V/250VAC	158

Dimensions 尺寸



TBP Series 3.6*10mm Time-Lag Glass Tube Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	250mA ~ 5A	E340427(JDYX)
	250mA ~ 5A	E340427(JDYX7)
	250mA ~ 5A	CQC11012058774
	500mA, 1A, 1.25A, 1.6A, 2A, 2.5A, 3.15A, 5A	40032053

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
210%*In	(2 min Max)
275%*In	(400 ms~10 s)
400%*In	(150 ms~3 s)
1000%*In	(20 ms~150 ms)

• Materials 材質

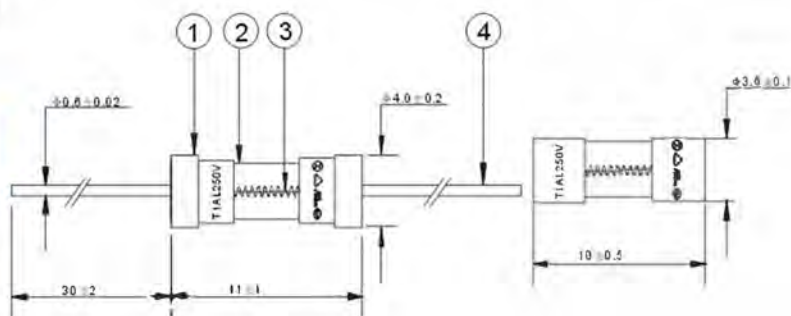
Part Name	Material
Cap	Nickel Plated Brass
Body	Glass Tube
Fuse element	Alloy
Lead wire	Tin Plated Copper

• Packaging 包裝

Packing type	Description
Bulk	500PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mv)	FT Melting Integral(A ² .S)
TBP0100A/B	100mA	250V/125V	350	0.003
TBP0125A/B	125mA	250V/125V	300	0.008
TBP0160A/B	160mA	250V/125V	280	0.01
TBP0200A/B	200mA	250V/125V	260	0.04
TBP0250A/B	250mA	250V/125V	240	0.06
TBP0315A/B	315mA	250V/125V	220	0.09
TBP0400A/B	400mA	250V/125V	200	0.2
TBP0500A/B	500mA	250V/125V	190	0.4
TBP0630A/B	630mA	250V/125V	180	1.0
TBP0800A/B	800mA	250V/125V	160	1.9
TBP1100A/B	1A	250V/125V	140	4.2
TBP1125A/B	1.25A	250V/125V	130	8.7
TBP1160A/B	1.6A	250V/125V	120	10.1
TBP1200A/B	2A	250V/125V	100	20.3
TBP1250A/B	2.5A	250V/125V	100	40
TBP1315A/B	3.15A	250V/125V	100	68
TBP1400A/B	4A	250V/125V	100	100
TBP1500A/B	5A	250V/125V	100	133
TBP1630A/B	6.3A	250V/125V	100	172
TBP1800A/B	8A	250V/125V	92	196
TBP2100A/B	10A	250V/125V	90	224
TBP2120A/B	12A	250V/125V	86	270
TBP2160A/B	16A	250V/125V	80	304
TBP2200A/B	20A	250V/125V	78	340

• Dimensions 尺寸



8x4mm TMS Series Time-Lag Radial Lead Micro Fuse



• Agency Approvals 安規認證

Agency	Ampere Range	Agency File Number
	50mA ~ 6.3A	E340427(JDYX2)
	50mA ~ 6.3A	E340427(JDYX8)
	50mA ~ 6.3A	Pending
	50mA ~ 6.3A	Pending
	50mA ~ 6.3A	Pending
	50mA ~ 6.3A	Pending

• Electrical Characteristics 電氣特性

% of Ampere Rating(In)	Blowing Time
150%* In	(60 min Minimum)
210%* In	(2 min Max)
275%* In	(400 ms~10 s)
400%* In	(150 ms~3s)
1000%* In	(20 ms~150 ms)

• Materials 材質

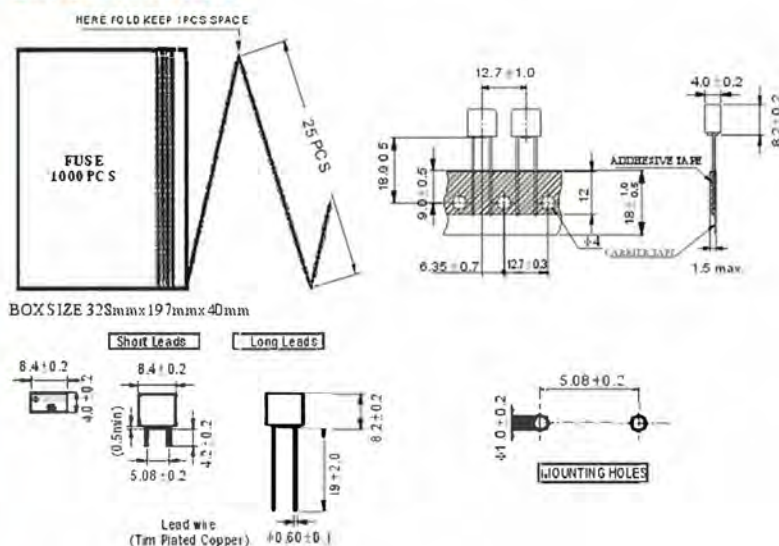
Part Name	Material
Cap&Base	Black/Brown Thermoplastic, UL 94 V-0
Lead wire	Copper, Tin-plated

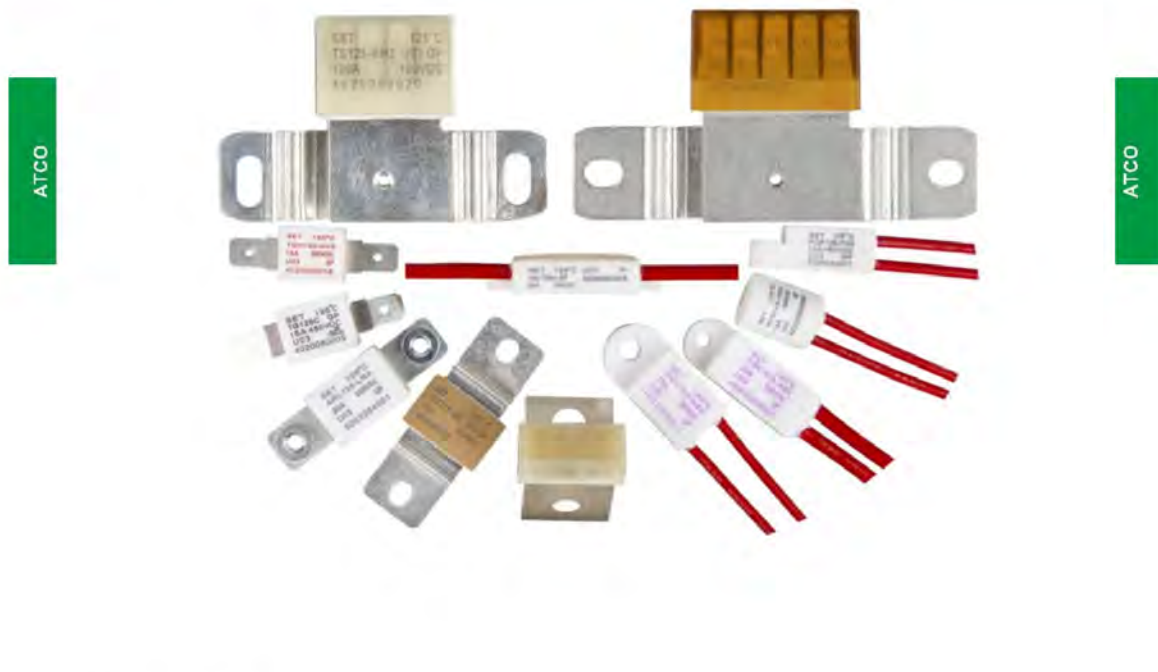
• Packaging 包裝

Packing type	Description
Bulk	1,000PCS per bag
Tape	1,000PCS per box

Catalog Number	Ampere Rating	Voltage Rating	Max Voltage Drop (mV)	I ² T Melting Integral(A ² .S)
TMS0050A	50mA	350V	655	0.04
TMS0100A	100mA	350V	410	0.31
TMS0125A	125mA	350V	323	0.42
TMS0160A	160mA	350V	296	0.57
TMS0200A	200mA	350V	272	0.71
TMS0250A	250mA	350V	251	0.91
TMS0315A	315mA	350V	237	0.63
TMS0400A	400mA	350V	211	1.22
TMS0500A	500mA	350V	202	2.34
TMS0630A	630mA	350V	191	2.88
TMS0800A	800mA	350V	172	3.92
TMS1100A	1A	350V	200	8.77
TMS1125A	1.25A	350V	200	10.22
TMS1160A	1.6A	350V	190	14.88
TMS1200A	2A	350V	170	29.90
TMS1250A	2.5A	350V	170	47
TMS1315A	3.15A	350V	150	62
TMS1400A	4A	350V	130	104
TMS1500A	5A	350V	130	195
TMS1630A	6.3A	350V	130	378
TMS1800A	8A	350V	100	521
TMS2100A	10A	350V	100	640

• Dimensions 尺寸





特征Features

- | | |
|-------------------------|--|
| • 低阻抗, 低功耗 | Low Impedance, Low Power Consumption |
| • 一次性动作而不可复位 | Non-Resettable |
| • 过温保护 | Over Temp. Protection |
| • 优越的抗振性 | Superior Vibration Resistance |
| • 符合RoHS & REACH | RoHS & REACH Compliant |
| • 额定电流: (10 ~ 200) A | Rated Current: (10 to 200) A |
| • 额定电压: (60 ~ 850) VDC | Rated Voltage: (60 to 850) VDC |
| • 额定动作温度: (76 ~ 230) °C | Rated Functioning Temp. : (76 to 230) °C |
| • 专利产品 | Patented product |

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温度保险丝

DC-Alloy Thermal-Link

ATCO

ATCO

温度保险丝特性与型号概览
Thermal-Link (DC-ATCO) Features & Model List Overview

额定动作温度 Rated Functioning Temp. T_f (°C)	200	187	180	150	145	139	136	135	133	130	125	123	120	115	105	102	97	95	86	76
额定电流 Rated Current I_{RA} (A)	ASL187A-L-SF	TGH187-HVS		ASL150A-L-SF	TGH150-HVS		ASL136A-L-SF	TGH136-HVS		ASL125A-L-SF	TGH125-HVS		ASL115A-L-SF	TGH115-HVS		ASL102A-L-SF	TGH102-HVS			
额定电压 Rated Voltage U_{RAC} (VDC)	600 (VDC)	850 (VDC)		600 (VDC)																
产品结构 Product Structure	径向型 Radial Shape	轴向型 Axial Shape	轴向型 Axial Shape	径向型 Radial Shape	轴向型 Axial Shape	轴向型 Axial Shape	径向型 Radial Shape	轴向型 Axial Shape	轴向型 Axial Shape	径向型 Radial Shape	轴向型 Axial Shape	轴向型 Axial Shape	径向型 Radial Shape	轴向型 Axial Shape	轴向型 Axial Shape	径向型 Radial Shape	轴向型 Axial Shape	轴向型 Axial Shape	轴向型 Axial Shape	轴向型 Axial Shape
	30	15	15	20	200	100														

温度保险丝

DC-Alloy Thermal-Link

产品描述Description

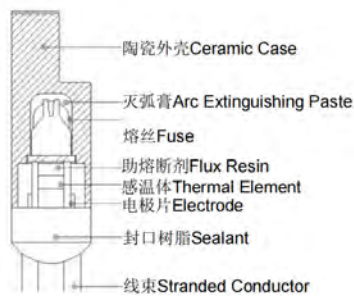
直流合金型温度保险丝是一次性动作而不可复位的装置。它广泛应用于电气设备及电动汽车的过温保护。其主要由低熔点的感温体、助熔剂、外壳、封口树脂和引线组成。在正常工作情况下，感温体与两根引线保持连接，当直流合金型温度保险丝感受到异常发热并达到预定的熔断温度时，感温体熔化，并在助熔剂的作用下快速收缩至引线两端，从而断开电路。

赛尔特公司 (SETsafe | SETfuse) 的直流合金型温度保险丝结构分为轴向型和径向型，额定动作温度：(76 ~ 230) °C、额定电流：(10 ~ 200) A，安规认证包括：UL、cUL，符合RoHS、REACH 要求。

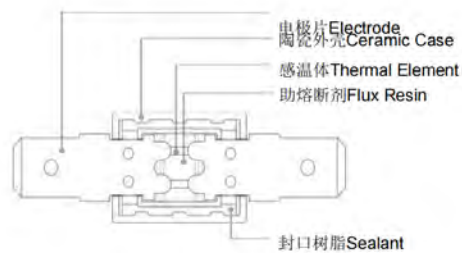
DC-Alloy Thermal-Link / DC-Alloy Thermal Cutoff (DC-ATCO) is defined as a non-resettable protective device functioning one time only. It is widely used in electrical equipment and electric vehicle. DC-ATCO is mainly consist of Thermal Element, Flux Resin, Case, Sealant and Lead Wires. Normally, thermal element is jointed to the two lead wires. Under abnormal conditions, when the temp. reaches to the fusing temp. of DC-ATCO, the thermal element melts and quickly retracts to the two lead wire ends with the aid of the flux resin and disconnects the circuit completely.

SETsafe | SETfuse DC-Alloy Thermal-Link is classified into Axial and Radial shapes, with Rated Current 10 A to 200 A, Rated Functioning Temp. 76 °C to 230 °C, with UL, cUL Approvals and RoHS, REACH compliant.

结构图Structure

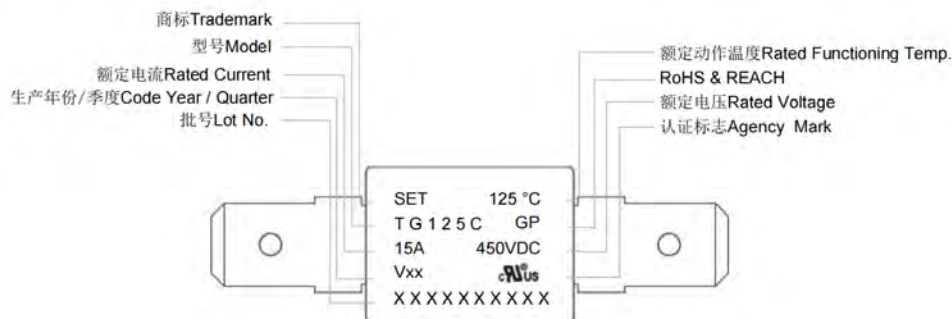


轴向型Axial Shape

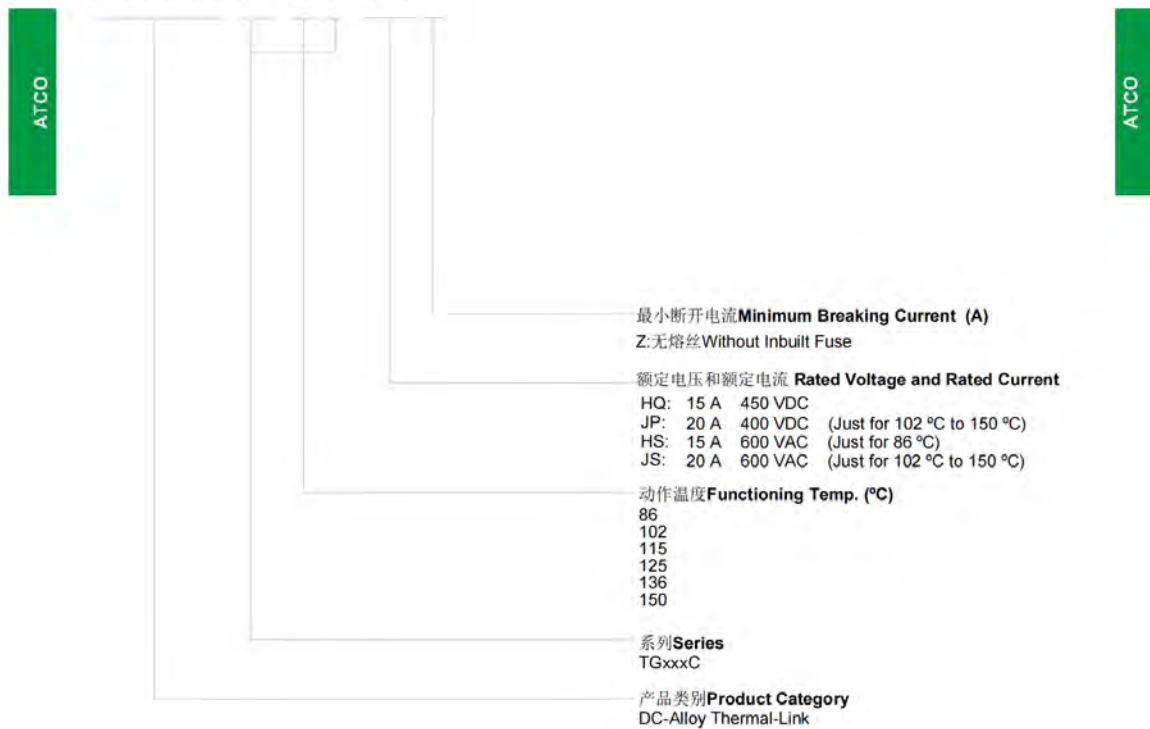


径向型Radial Shape

产品标识Marking



DC-ATCO-TG125C - H Q Z



术语Glossary

项目Item	说明Description
TCO	热熔断体Thermal-Link 热熔断体也称为热断路器或温度保险丝，在本文中这些不同名词都代表同样的产品，为一次性动作而不可复位的元件。 A non-resettable device incorporating a THERMAL ELEMENT which will open a circuit once only when exposed for a sufficient length of time to a temperature in excess of that for which it has been designed.
ATCO	合金型热熔断体Alloy Thermal-Link 合金类型温度保险丝，合金是热敏元件。 Alloy Type Thermal-Link, Alloy is the thermal element.
DC-ATCO	直流热熔断体DC-Alloy Thermal-Link 直流合金型温度保险丝，由易熔合金作为感温部件的热熔断体。 DC-Alloy type Thermal-Link, Alloy is thermal element.
T_f	额定动作温度Rated Functioning Temp. 通10 mA以下的负载电流时，加热使温度保险丝断开的温度。 The temperature of the Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load. Tolerance: T_f 0 / -10 °C (GB 9816, EN 60691, K60691). Tolerance: $T_f \pm 7$ °C (J60691).
Fusing Temp.	实测熔断温度Fusing Temp. 置于油池中，通10 mA以下的负载电流，每分钟升温0.5 °C ~ 1 °C，测断开温度。 The temperature of the Alloy Thermal-Link which causes it to change its state of conductivity is measured with silicone oil bath in which the temperature is increased at the rate of 0.5 °C to 1 °C / minute, with a detection current up to 10 mA as the only load.
T_h	保持温度Holding Temp. 持续通额定电流168小时不断开的最高温度。 The Maximum temperature at which a Thermal-Link will not change its state of conductivity when conducting rated current for 168 hours.
T_m	极限温度Maximum Temp. Limit 在规定的时间内不破坏机械和电气特性所能承受的最高温度。 The temperature of the Thermal-Link stated by the manufacturer, up to which the mechanical and electrical properties of the Thermal-Link having changed its state of conductivity, will not be impaired for a given time.
I_{min}	最小断开电流Minimum Breaking Current 温度保险丝工作时实际允许用于电路，并安全断开的最小电流。 The minimum current that Fuse requires after the Alloy of Thermal-Link opens in the circuit.
I_r	额定电流Rated Current 温度保险丝分类用，允许用于电路并安全断开的最大电流。 The current used to classify a Thermal-Link, which is the maximum current that Thermal-Link allows to carry and is able to cut off the circuit safely.
U_r	额定电压Rated Voltage 温度保险丝分类用，允许用于电路并安全断开的最高电压。 The voltage used to classify a Thermal-Link, which is the maximum voltage that Thermal-link allows to carry and is able to cut off the circuit safely.

ATCO



ATCO

注意

ATTENTION

使用方法Usage

1. 大气压：（80 to 106）kPa，海拔高度：（-500 to 2000）m。
When atmosphere pressure is from 80 kPa to 106 kPa, the related altitude shall be from +2000 m to - 500 m.
2. 工作电压不超过温度保险丝的额定电压；工作电流不超过额定电流。
Operating voltage less than rated voltage of DC-ATCO, operating current less than rated current of DC-ATCO.
3. 通电情况下请勿用人体直接触碰本体或引脚，防止烫伤或触电。
Do not touch the DC-ATCO body or lead wires directly when power is on, to avoid burn or electric shock.

更换Replacement

温度保险丝是不可修复的产品。基于安全原因，替换时应使用同类别、同型号的温度保险丝并且严格按照同样的方法正确安装。
DC-ATCO is a non-repairable product. For safety sake, it shall be replaced by an equivalent DC-ATCO from the same manufacturer, and mounted in the same way.

贮存Storage

温度保险丝的贮存应避免高温、高湿、日光直射和腐蚀性气体的场合，储存温度为 25 ± 5 °C，相对湿度 $\leq 70\%$ ，避免阳光直射，产品购入后请于1年内使用完毕。

Do not store the DC-ATCO at the high temp., high humidity or corrosive gas environment. The product shall be stored at 25 ± 5 °C and $\leq 70\%$ RH, avoid direct sunlight and shall use them up within 1 year after receiving the goods.

安装Installation

安装位置的温度确定Make Sure the Temp. of Installation Position

1. 建议采用内置热电偶式的仿真温度保险丝来确定适合的温度要求。
It is recommended that a dummy DC-ATCO with inbuilt thermo-couple shall be used to determine the proper temp.
2. 需对终端产品进行测试，以确保潜在的异常状况不会导致温度保险丝超过其极限温度。
The terminal product should be tested to ensure that potential abnormal conditions do not cause ambient temp. to exceed the T_m of the DC-ATCO.
3. 将温度保险丝安装在可使其温度平稳上升的部位。
Mount the DC-ATCO at the location where temp. rises evenly.

安装位置的机械性能要求Installation position of mechanical performance requirements

1. 确保引线足够长，且其安装方法不会造成强行按压、拉伸及扭转引线之现象。
Ensure that the lead wire is long enough, and avoid actions such as press, tensile or twist.
2. 保险丝的封口及主体不能受损、燃烧或过热。
The seal or body of DC-ATCO must not be damaged, burned or over heated.

机械连接Mechanical Connection

铆接Riveting

1. 选用电阻率小的铆接材料和被铆接材料。
Choose small resistivity riveting material and be riveted.
2. 采用柔韧的、易弯曲的引线来与温度保险丝铆接。
A flexible lead or lead with low resistance should be used to rivet the DC-ATCO.
3. 应确保铆接后的接触电阻为最小值，过大的接触电阻会产生较高的温升，造成温度保险丝提前熔断。
Contact resistance should be minimal, Large contact resistance will lead to higher temp., DC-ATCO Functioning in advance.

焊接Soldering

手工焊接Hand-Soldering

1. 焊接必须在表T-1 所列的条件下进行。
Soldering should be carried out according to Table T-1.
2. 由于温度保险丝中与引线连接的感温体是低熔点的合金，因此不正确的焊接操作（例如：温度过高、焊接时间过长、引线过短等）可能导致感温体被引线传递的过高热量所影响，从而使得温度保险丝提前断开。
The thermal element of DC-ATCO is thermal element with low melting point, which is jointed with DC-ATCO lead wires. Improper soldering operation (too high soldering temp., too long soldering time, too short lead wire etc.) may transfer more heat to the thermal element and DC-ATCO may open in advance.
3. 若需要在比表T-1 规定更为严苛环境下进行焊接时，应在焊接点和温度保险丝主体间的引线上使用散热装置。
When soldering conditions are more severe than those listed in Table T-1, a heat sink fixture should be used between soldering point and DC-ATCO body.
4. 焊接时应小心，以避免温度保险丝主体和引线遭受到推/ 拉力以及扭力。
When soldering, please do not pull / push or twist DC-ATCO body or lead wires.
5. 焊接后应让其自然冷却20 秒以上，在冷却期间，勿移动温度保险丝本体和引线。
After soldering, let it naturally cool for longer than 20 seconds. During cooling, never move the DC-ATCO body or lead wires.

温度保险丝

DC-Alloy Thermal-Link

表T-1: 手工焊接时间 TABLE T-1 Hand-Soldering Time

额定动作温度 Rated Functioning Temp. (T _f)	不同引线长度对应的最大允许焊接时间 Max. Allowable Soldering Time for Different Lead Wire Length (Fig.H-1)						最高焊接温度 Max. Soldering Temp.
	L _s 长度 Length	时间Time	L _s 长度 Length	时间Time	L _s 长度 Length	时间Time	
		镀锡铜线 Tinned Copper Wire		镀锡铜线 Tinned Copper Wire		镀锡铜线 Tinned Copper Wire	
(°C)	(mm)	(s)	(mm)	(s)	(mm)	(s)	(°C)
76 ~ 101	10	1 ^a	20	2	30	3	400
102 ~ 115	10	1 ^a	20	2	30	3	
116 ~ 135	10	1 ^a	20	3	30	5	
136 ~ 150	10	3	20	5	30	5	
151 ~ 230	10	4	20	6	30	7	

※ 需要使用辅助散热器固定装置，以防止DC-ATCO意外切断。
Auxiliary heat sink fixture is required to avoid DC-ATCO cutting off unexpectedly.

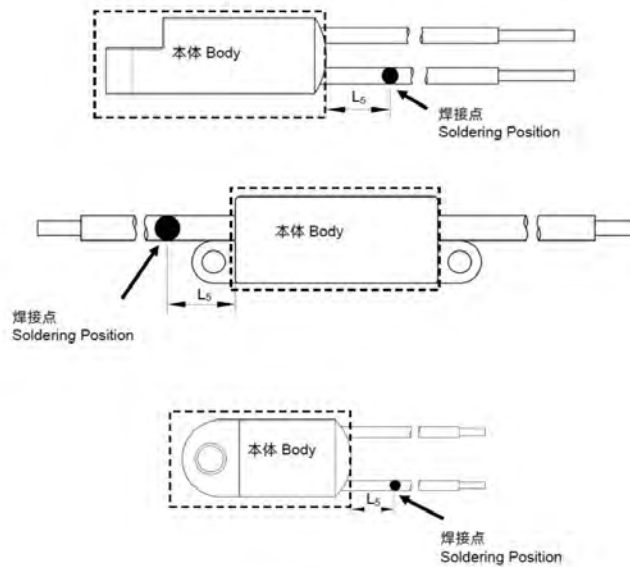


图 FIGURE T-1

引线成型Lead Wire Forming

1. 如果一定要弯折引线，那么应确保弯折处与主体间的距离，如表T-3。
If lead wire has to be bent, please pay attention to the distance between body and bending point. Refer to Table T-3.
2. 弯折引线时请使用钳子或其它工具固定（如图T-2 所示），以免损坏产品。
When bending leads, please use pincher or similar tools to fix the product as shown in Fig.T-2、to avoid damaging the product.
3. 成形和安装过程中，对引线进行裁切、切割、弯折时，请勿用力过猛，以免造成产品断裂或本体损伤。
During forming and mounting, lead wire should not be cut, nicked, bent sharply, to avoid breaking the product.
4. 避免直接对引线根部施加外力（比如与温度保险丝主体成一定角度推或拉），以免损坏温度保险丝封口。
Tangential forces on the leads must be avoided (i.e. pushing or pulling on the leads at angle to DC-ATCO body) as such forces may damage the seal of DC-ATCO.
5. 折弯半径 $R \geq 15d$ ，如图2所示。
Bending radius $R: \geq 15d$, as shown in Figure 2

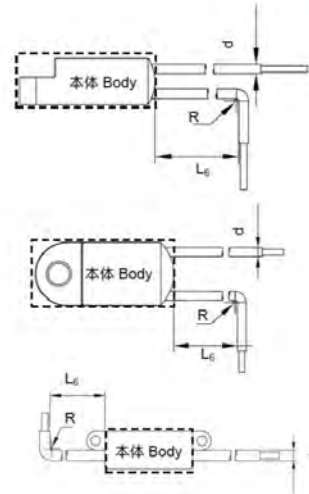


图 FIGURE T-2

表T-3 本体与折弯处之间的距离

TABLE T-3 Distance between Body and Bending Point

引线 Lead Wire	d	(mm)	≤ 1.0	1.0 to 1.2	> 1.2
	L_6	(mm)	≥ 3	≥ 5	≥ 10

ATCO



特性Features

- 动作温度精确High Accuracy of Functioning Temp.
- 一次性动作不可复位Non-Resettable
- 符合RoHS、REACH要求RoHS & REACH Compliant
- DC 50 A
- 符合UN 38.3 标准 Meet UN 38.3 standard

应用Applications

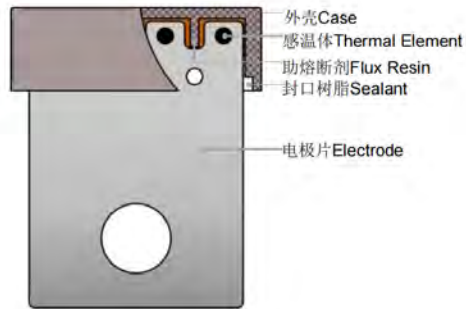
- 电动汽车电池模组 EV Battery Modules
- 大功率固态继电器 High Power Solid State Relays

定制 Customization

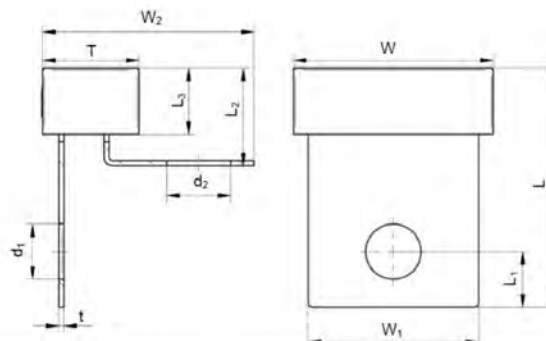
- 额定动作温度Rated Functioning Temp.
- 电极片的形状The Shape of Electrode

ATCO

结构图Structure Diagram



尺寸Dimensions (mm)



L	L ₁	L ₂	L ₃	W	W ₁	W ₂	T	t	d ₁	d ₂
28.0 ± 0.5	6.5 ± 0.2	11.5 ± 0.7	7.8 ± 0.5	23.4 ± 0.5	20.0 ± 0.5	24.8 ± 0.5	11.3 ± 0.5	0.60 ± 0.05	6.5 ± 0.1	7.5 ± 0.1

技术参数 Specifications

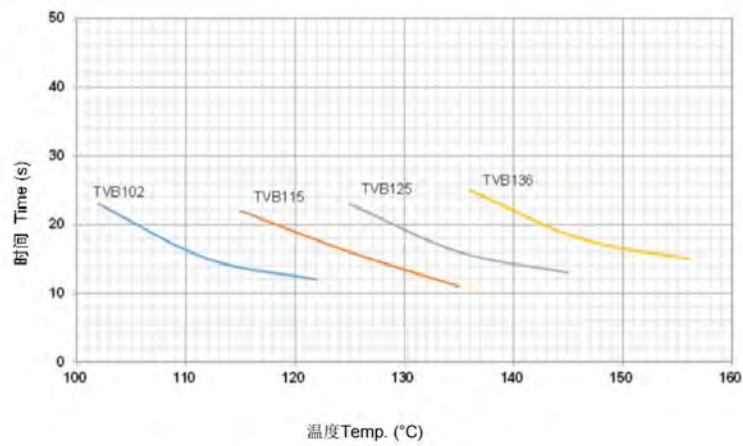
ATCO	型号 Model	额定动作温度 T_r	实测熔断温度 Fusing Temp.	保持温度 T_h	极限温度 T_m	额定电流 I_r	额定电压 U_r	RoHS REACH
		(°C)	(°C)	(°C)	(°C)	(A)	(V)	
	TVB102-NEZ	102	98 ± 3	61	180	50	60	●
	TVB115-NEZ	115	111 ± 3	70	180	50	60	●
	TVB125-NEZ	125	121 ± 3	80	180	50	60	●
	TVB136-NEZ	136	132 ± 3	91	180	50	60	●

ATCO

温度-时间曲线Temp.-Time Curve

描绘了温度保险丝在不同油池温度下的动作时间曲线。（此曲线仅供参考）

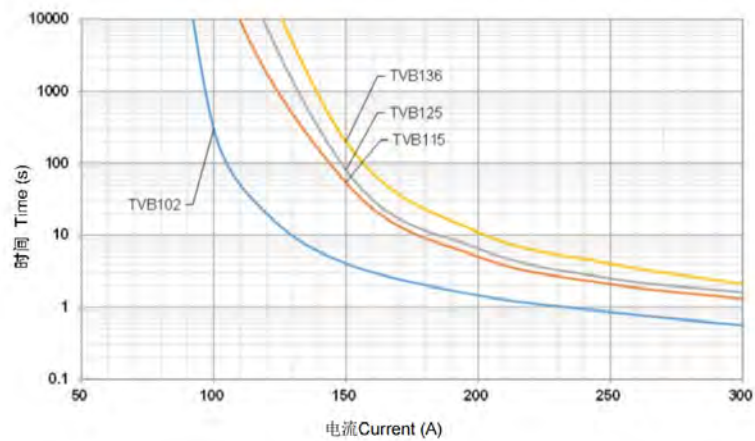
The functioning temperature time curve of Alloy Thermal-Link in different Temp. oil bath. (This curve is for reference only)



电流-时间曲线Current-Time Curve

描绘了温度保险丝在 $25 \pm 2^\circ\text{C}$ 室温中，不同倍数额定电流下的断开时间。（此曲线仅供参考）

This is an illustrated curve, describing the opening time at Multi-times rated current in the condition of the room Temp. 25°C . (This curve is for reference only)

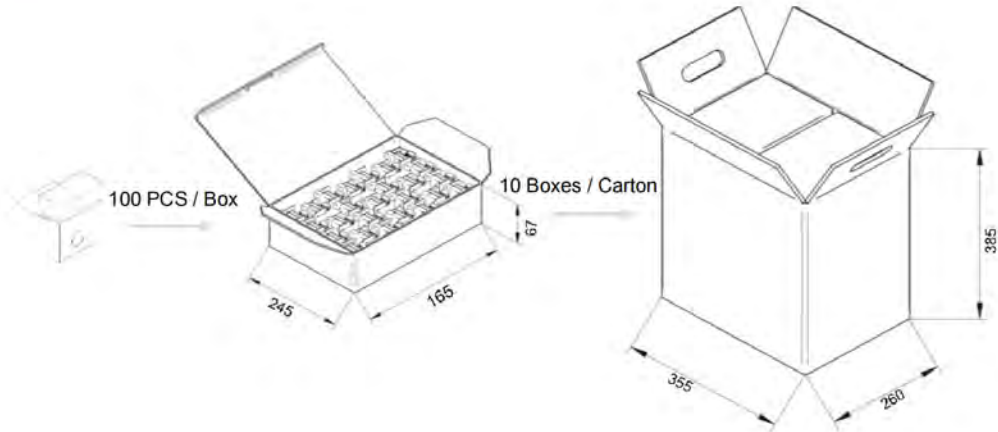


包装信息Packaging Information

ATCO

项目 Item	纸盒 Box	纸箱 Carton
尺寸Dimensions (mm)	245 × 165 × 67	355 × 260 × 385
数量Quantity (PCS)	100	1000
毛重Gross Weight (kg):		9.8 ± 10%

ATCO



C1206F贴片熔断器

Surface Mount Fuses



电流特性 | Characteristics

额定电流 Ampere Rating	额定电流 % % of Current Rating	熔断时间 Opening Time
0.5-30A	100% 250%	Min. 4hours Max. 60sec

应用领域 | Applications

电器、笔记本电脑、打印机等
Electrical appliances, laptops, printers, etc.

小型电动工具中的电池组
Battery pack in small power tools

电动玩具，硬盘驱动
Electric toys, hard drive

汽车应用方面，如电池管理系统BMS方面
Automotive applications, such as battery management system BMS

产品规格 | Specifications

型号 Part Number	额定电流(A) Current Rating(A)	额定电压(V) Voltage Rating(V)	分断能力 Interrupting Capacity	典型直流冷电阻(mΩ) Typical Cold DCR(mΩ)	公称热能值(A²s) Nominal I²T(A²s)	字码 Marking	认证 Approvals cULus
C1206F0.50A	0.5			0.112	0.05	A	●
C1206F0.63A	0.63			0.096	0.08	B	●
C1206F0.75A	0.75			0.086	0.15	C	●

产品介绍 | Introduction

C1206F系列是中空型表面贴装的保险丝，其最大分断电压125V，最大分断电流200A，其产品尺寸较小，尤其是高度方向只有1.1mm，可以满足有限空间的设计

C1206F series are wire-in-air surface mount fuses. The maximum breaking voltage is 125V and maximum breaking current is 200A. The product size is small, especially the height direction is only 1.1mm, which can meet the design of limited space

产品特点 | Features

采用电镀铜连接电极，可靠性高

Electroplated copper is used to connect electrodes, with high reliability

规格范围广：0.5A-30A

Wide range of specifications: 0.5A-30A

结构特性I²T稳定，耐高浪涌能力强

Structural characteristics I²T is stable, with strong surge resistance

密封性结构，耐恶劣环境性强

Sealing structure, strong resistance to harsh environment

中空设计，分断安全，无火星四溅

Wire-in-air design, safe breaking, no sparks

100%无铅，无卤，符合RoHS的要求

100% lead-free, halogen-free, RoHS compliant

防硫化设计

Antivulcanization design

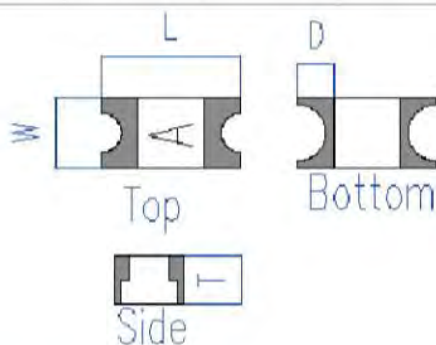
C1206F贴片熔断器

Surface Mount Fuses

C1206F1.00A	1	125VDC	50A@125VDC 200A@48VDC	0.068	0.21	D	●
C1206F1.25A	1.25			0.057	0.28	E	●
C1206F1.50A	1.5			0.045	0.41	F	●
C1206F1.60A	1.6			0.036	0.63	U	●
C1206F2.00A	2			0.026	1.07	H	●
C1206F2.50A	2.5			0.021	1.72	I	●
C1206F3.00A	3	65VDC	50A@65VDC 200A@48VDC	0.018	2.52	J	●
C1206F3.15A	3.15			0.0172	2.75	K	●
C1206F3.50A	3.5			0.0153	3.1	V	●
C1206F4.00A	4			0.0145	3.3	L	●
C1206F5.00A	5			0.0112	5.7	M	●
C1206F6.30A	6.3			0.0089	9.0	N	●
C1206F7.00A	7	48VDC	200A@48VDC	0.0076	12.8	O	●
C1206F8.00A	8			0.0070	17	P	●
C1206F10.0A	10			0.0046	11.4	Q	●
C1206F12.0A	12			0.0040	15	R	●
C1206F15.0A	15			0.0031	26	S	●
C1206F20.0A	20			0.0027	28	T	●
C1206F25.0A	25	36VDC	200A@36VDC	0.0019	46	X	●
C1206F30.0A	30			0.0017	72	Y	●

产品尺寸 | Dimensions

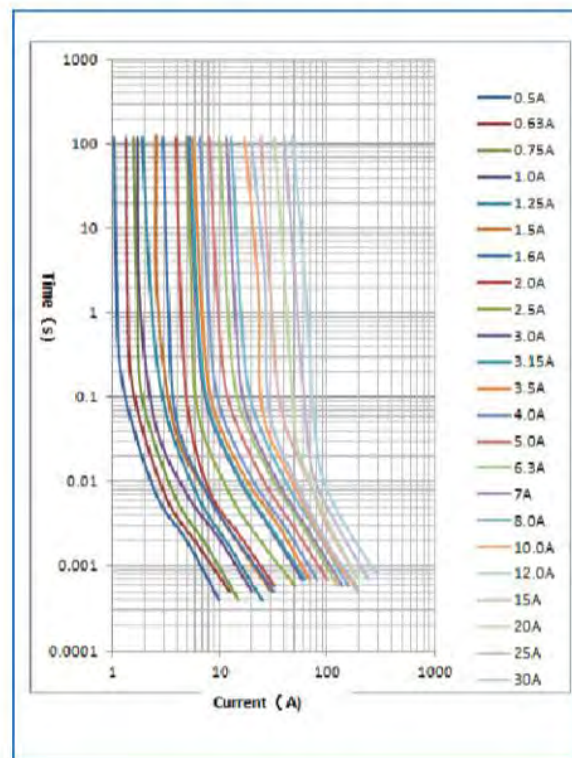
型号	L	W	T	D
Type	(mm)	(mm)	(mm)	(mm)
C1206F	3.2±0.20	1.6±0.25	1.1±0.2	0.85±0.35



包装 | Packing

Tape (mm)	Reel (inch)	数量 Quantity
8	7	3500

时间-电流曲线图 | Time Current Curve



C1206T贴片熔断器

Surface Mount Fuses



电流特性 | Characteristics

额定电流 Ampere Rating	额定电流 % % of Current Rating	熔断时间 Opening Time
0.5-30A	100%	Min. 4hours
0.5-5A	200%	Max.5sec
6-30A	350%	Max.120sec
0.5-30A	1000%	0.2-20ms

应用领域 | Applications

电器、笔记本电脑、打印机等

Electrical appliances, laptops, printers, etc.

小型电动工具中的电池组

Battery pack in small power tools

电动玩具，硬盘驱动

Electric toys, hard drive

汽车应用方面，如电池管理系统BMS方面

Automotive applications, such as battery management system BMS

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型号 Part Number	额定电流(A) Current Rating(A)	额定电压(V) Voltage Rating(V)	分断能力 Interrupting Capacity	典型直流冷电阻(mΩ) Typical Cold DCR(mΩ)	公称热能值(A²s) Nominal I²T(A²s)	字码 Marking	认证 Approvals
C1206T0.50A	0.5			0.112	0.05	A	●
C1206T0.63A	0.63			0.096	0.08	B	●
C1206T0.75A	0.75			0.086	0.15	C	●

产品介绍 | Introduction

C1206T系列是中空型慢断表面贴装的保险丝，其最大分断电压125V，最大分断电流200A，其产品尺寸较小，尤其是高度方向只有1.1mm，可以满足有限空间的设计

C1206T series are wire-in-air time-lag surface mount fuses. The maximum breaking voltage is 125V and maximum breaking current is 200A. The product size is small, especially the height direction is only 1.1mm, which can meet the design of limited space

产品特点 | Features

采用电镀铜连接电极，可靠性高

Electroplated copper is used to connect electrodes, with high reliability

规格范围广：0.5A-30A

Wide range of specifications: 0.5A-30A

结构特性I²T稳定，耐高浪涌能力强

Structural characteristics I²T is stable, with strong surge resistance

密封性结构，耐恶劣环境性强

Sealing structure, strong resistance to harsh environment

中空设计，分断安全，无火星四溅

Wire-in-air design, safe breaking, no sparks

100%无铅，无卤，符合RoHS的要求

100% lead-free, halogen-free, RoHS compliant

防硫化设计

Antivulcanization design

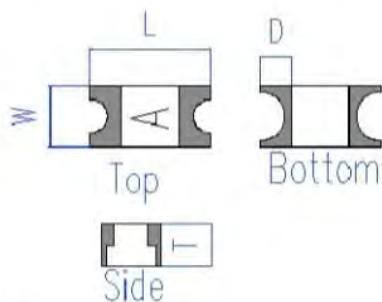
C1206T贴片熔断器

Surface Mount Fuses

C1206T1.00A	1	125VDC	50A@125VDC 200A@48VDC	0.068	0.21	D	●
C1206T1.25A	1.25			0.057	0.28	E	●
C1206T1.50A	1.5			0.045	0.41	F	●
C1206T1.60A	1.6			0.036	0.63	U	●
C1206T2.00A	2			0.026	1.07	H	●
C1206T2.50A	2.5			0.021	1.72	I	●
C1206T3.00A	3	65VDC	50A@65VDC 200A@48VDC	0.018	2.52	J	●
C1206T3.15A	3.15			0.0172	2.75	K	●
C1206T3.50A	3.5			0.0153	3.1	V	●
C1206T4.00A	4			0.0145	3.3	L	●
C1206T4.50A	4.5			0.0112	5.7	M	●
C1206T5.00A	5	48VDC	200A@48VDC	0.0089	9.0	N	●
C1206T6.00A	6			0.0076	12.8	O	●
C1206T7.00A	7			0.0070	17	P	●
C1206T8.00A	8			0.0040	15	R	●
C1206T10.0A	10			0.0031	26	S	●
C1206T12.0A	12	36VDC	200A@36VDC	0.0027	28	T	●
C1206T15.0A	15			0.0019	42	X	●
C1206T20.0A	20			0.0017	84	Y	●
C1206T25.0A	25	30VDC	200A@30VDC	0.0011	125	W	●
C1206T30.0A	30			0.0009	207	Z	●

产品尺寸 | Dimensions

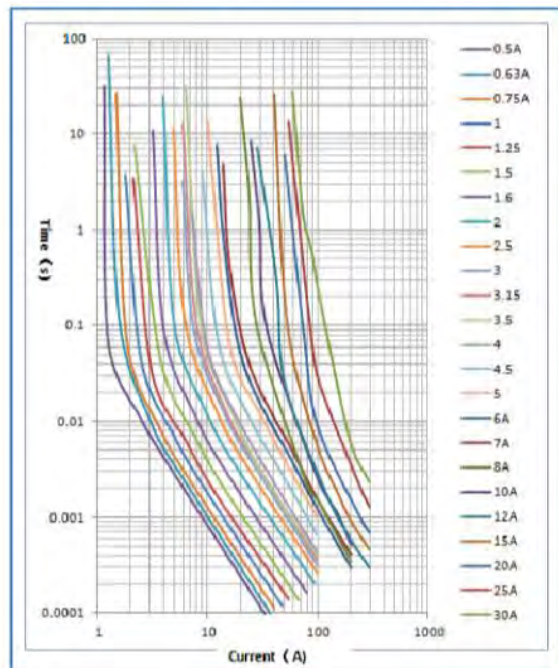
型号	L	W	T	D
Type	(mm)	(mm)	(mm)	(mm)
C1206T	3.2±0.20	1.6±0.25	1.1±0.2	0.85±0.35



包装 | Packing

Tape (mm)	Reel (inch)	数量 Quantity
7	8	3500

时间-电流曲线图 | Time Current Curve



C2410F贴片熔断器

Surface Mount Fuses



电流特性 | Characteristics

额定电流 Ampere Rating	额定电流 % % of Current Rating	熔断时间 Opening Time
0.5-30A	100%	Min. 4hours
	200%	Max.120sec

应用领域 | Applications

电源、手机充电器、安防电源等

Power supply, mobile phone charger, security power supply, etc.

电器, 笔记本电脑, 电视, LCD面板等

Electrical appliances, laptops, televisions, LCD panels, etc.

电动工具中的电池组, 储能

Battery pack in electric tools, energy storage

汽车应用方面, 如电池管理系统BMS方面

Automotive applications, such as battery management system BMS

产品规格 | Specifications

型号 Part Number	额定电流(A) Current Rating(A)	额定电压(V) Voltage Rating(V)	分断能力 Interrupting Capacity	典型直流冷电阻(mΩ) Typical Cold DCR(mΩ)	公称热能值(A²s) Nominal I²T(A²s)	字码 Marking	认证 Approvals			
C2410F0.50A	0.50			0.225	0.10	A	●	○	○	○
C2410F0.63A	0.63			0.171	0.12	B	●	○	○	○

产品介绍 | Introduction

C2410F系列是中空型表面贴装的保险丝, 其最大分断电压250V, 最大分断电流300A, 其产品尺寸较小, 尤其是高度方向只有2.2mm, 可以满足有限空间的设计

C2410F series are wire-in-air surface mount fuses, with maximum breaking voltage of 250V and maximum breaking current of 300A. The size of the products is small, especially the height direction is only 2.2mm, which can meet the design of limited space

产品特点 | Features

采用电镀铜连接电极, 可靠性高

Electroplated copper is used to connect electrodes, with high reliability

规格范围广: 0.5A-30A

Wide range of specifications: 0.5A-30A

中空设计, 分断安全, 无火星四溅

Wire-in-air design, safe breaking, no sparks

结构特性I²T稳定, 耐高浪涌能力强

Structural characteristics I²T is stable, with strong surge resistance

密封性结构, 耐恶劣环境性强

Sealing structure, strong resistance to harsh environment

100%无铅, 无卤, 符合RoHS的要求

100% lead-free, halogen-free, RoHS compliant

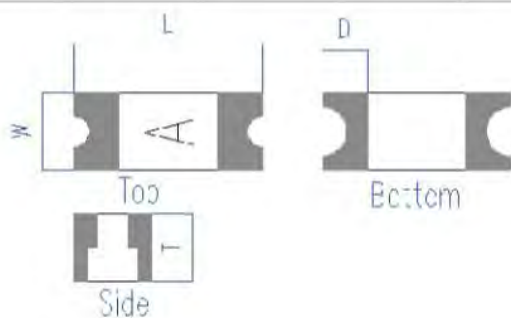
C2410F贴片熔断器

Surface Mount Fuses

C2410F0.75A	0.75	125VDC 250VAC	100A@125VDC 100A@250VAC 300A@48VDC	0.117	0.23	C	●	○	○	○
C2410F1.00A	1.00			0.090	0.57	D	●	○	○	○
C2410F1.25A	1.25			0.070	0.70	E	●	○	○	○
C2410F1.50A	1.50			0.063	0.81	F	●	○	○	○
C2410F1.60A	1.60			0.055	1.10	U	●	○	○	○
C2410F2.00A	2.00	125VDC 125VAC	100A@125VDC 100A@125VAC 300A@48VDC	0.036	2.50	H	●	○	○	○
C2410F2.50A	2.50			0.030	3.30	I	●	○	○	○
C2410F3.00A	3.00			0.024	0.9	J	●	○	○	○
C2410F3.15A	3.15			0.023	1.0	K	●	○	○	○
C2410F3.50A	3.50			0.020	2.4	V	●	○	○	○
C2410F4.00A	4.00	125VDC	50A@125VDC 300A@48VDC	0.017	3.2	L	●	○	○	○
C2410F5.00A	5.00			0.014	5.0	M	●	○	○	○
C2410F6.30A	6.30			0.0118	6.1	N	●	○	○	○
C2410F7.00A	7.00			0.0099	9.8	O	●	○	○	○
C2410F8.00A	8.00			0.0082	14.2	P	●	○	○	○
C2410F10.0A	10.0	72VDC	60A@72VDC 300A@48VDC	0.0071	22.5	Q	●	○	○	○
C2410F12.0A	12.0			0.0049	43.2	R	●	○	○	○
C2410F15.0A	15.0			0.0038	67.5	S	●	○	○	○
C2410F20.0A	20.0			0.0031	116	T	●	○	○	○
C2410F25.0A	25.0			0.0024	153	X	●	○	○	○
C2410F30.0A	30.0			0.0019	252	Y	●	○	○	○

产品尺寸 | Dimensions

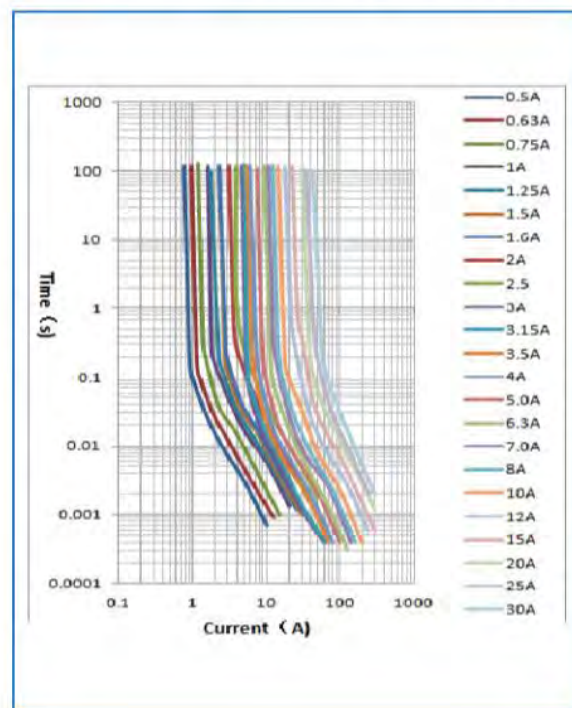
型号	L	W	T	D
Type	(mm)	(mm)	(mm)	(mm)
C2410F	6.1±0.20	2.50±0.2	2.1±0.2	1.40±0.35



包装 | Packing

Tape (mm)	Reel (inch)	数量 Quantity
12.0	7	2000

时间-电流曲线图 | Time Current Curve



L1032F贴片熔断器

Surface Mount Fuses



产品介绍 | Introduction

L1032F系列是中空型内含填料的表面贴装的保险丝，其全系列都满足电压80VDC@600A，且尺寸较小，便于安排

L1032F series are wire-in-air surface mount fuses with filler, and the whole series meet the voltage requirements 80VDC@600A, and the size is small, easy to arrange

电流特性 | Characteristics

额定电流 Ampere Rating	额定电流 % % of Current Rating	熔断时间 Opening Time
20-60A	100%	Min. 4hours
	200%	Max. 120sec

应用领域 | Applications

电源：电动工具，基站电源

Power supply: electric tools, base station power supply

电机：服务器散热风扇，无人机电机

Motor: server cooling fan, UAV motor

存储系统电源等，如电池管理系统BMS方面

Storage system power, such as battery management system BMS

产品特点 | Features

采用电镀铜连接电极，可靠性高

Electroplated copper is used to connect electrodes, with high reliability

新型的端头设计，加强端头散热功能

New end design enhances the heat dissipation function of the end

一体化熔丝设计，产品的一致性高

One body fuse-element design, good product consistency

结构特性 I^2T 稳定，耐高浪涌能力强

Structural characteristics I^2T is stable, with strong surge resistance

密封性结构，耐恶劣环境性强

Sealing structure, strong resistance to harsh environment

100%无铅，无卤，符合RoHS的要求

100% lead-free, halogen-free, RoHS compliant

L1032F贴片熔断器

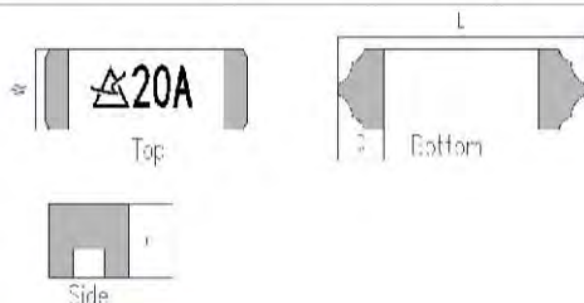
Surface Mount Fuses

产品规格 | Specifications

型号 Part Number	额定电流(A) Current Rating(A)	额定电压(V) Voltage Rating(V)	分断能力 Interrupting Capacity	典型直流冷电阻(mΩ) Typical Cold DCR(mΩ)	公称热能值(A ² s) Nominal I ² T(A ² s)	认证 Approvals 
L1032F20A	20	80VDC	600A@80VDC	2.22	200	•
L1032F25A	25			1.73	315	•
L1032F30A	30			1.45	580	•
L1032F40A	40			1.02	1050	•
L1032F50A	50			0.88	1620	•
L1032F60A	60			0.79	2200	•

产品尺寸 | Dimensions

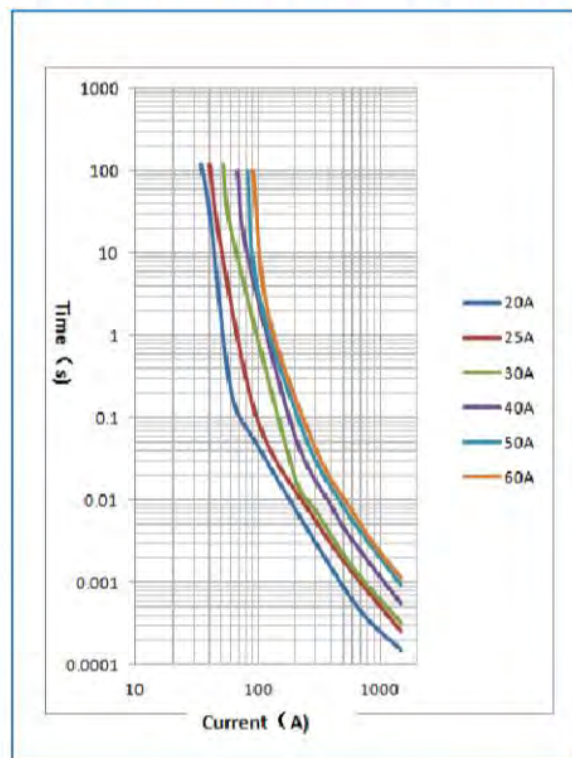
型号	L	W	T	D
Type	(mm)	(mm)	(mm)	(mm)
L1032F	10.1±0.20	3.20±0.3	3.2±0.3	1.9±0.35



包装 | Packing

Tape (mm)	Reel (inch)	数量 Quantity
24	13	2000

时间-电流曲线图 | Time Current Curve



L1245F贴片熔断器

Surface Mount Fuses



产品介绍 | Introduction

L1245F系列是大电流快断的表面贴装的保险丝，其最高规格达到125A，且全系列都满足电压86VDC@1500A分断条件，同时尺寸较小，宽度4.5mm，便于安排

L1245F series are fast-acting surface-mounted fuses with large current, the maximum specification reaches 125A, and the whole series meet the voltage 86VDC@1500A breaking capacity. The size is small with width 4.5mm, easy to arrange

电流特性 | Characteristics

额定电流 Ampere Rating	额定电流 % % of Current Rating	熔断时间 Opening Time
10-125A	100%	Min.4hours
10-40A	200%	Max.120sec
50-125A	350%	Max.10sec

应用领域 | Applications

服务器、路由器、通讯基站

Server, router, communication base station

工业机械：叉车，推土机等，园林工具，电动汽车

Industrial machinery: forklift, bulldozer, etc., garden tools, electric vehicles

大功率电源系统，存储系统

High-power power supply system, storage system

产品特点 | Features

采用芯片折弯工艺，大幅增加熔丝与端头接触面积，保证连接可靠

The chip bending process is adopted to greatly increase the contact area between the fuse-element and the ends to ensure reliable connection

采用特殊设计芯片，快速散热，降低产品的温升

Adopt specially designed chips to quickly dissipate heat and reduce the temperature rise of products

采用多熔点的设计，大幅提高分断能力

Adopt the design of multiple melting points to greatly improve the breaking capacity

高 I^2T ，耐高浪涌能力强

High I^2T , strong surge resistance

自有专利产品

Own patented products

L1245F贴片熔断器

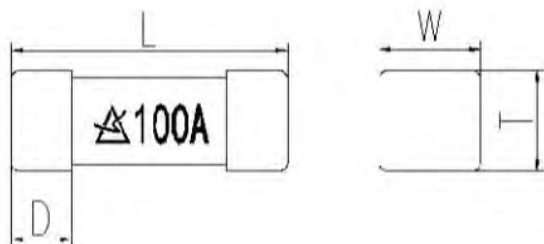
Surface Mount Fuses

产品规格 | Specifications

型号 Part Number	额定电流(A) Current Rating(A)	额定电压(V) Voltage Rating(V)	分断能力 Interrupting Capacity	典型直流冷电阻(mΩ) Typical Cold DCR(mΩ)	公称热能值(A²s) Nominal I²T(A²s)	认证 Approvals CULUS
L1245F10.0A	10	250C	250VAC200A 125VDC300A 86VDC1500A	6.43	113	●
L1245F12.0A	12			5.34	173	●
L1245F15.0A	15			3.62	350	●
L1245F20.0A	20			3.00	528	●
L1245F30.0A	30			2.19	1026	●
L1245F40.0A	40			1.48	2352	●
L1245F50.0A	50	86V	86VDC1500A	0.69	4000	●
L1245F60.0A	60			0.6	6500	●
L1245F70.0A	70			0.58	7200	●
L1245F80.0A	80			0.56	9200	●
L1245F90.0A	90			0.53	12000	●
L1245F100A	100			0.50	14000	●
L1245F125A	125			0.38	20000	●

产品尺寸 | Dimensions

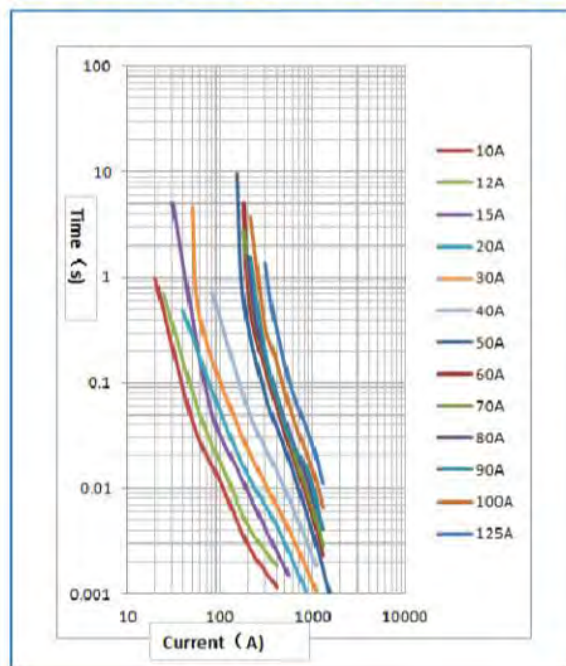
型号	L	W	T	D
Type	(mm)	(mm)	(mm)	(mm)
L1245F	12.3±0.50	4.5±0.2	4.5±0.2	2.7±0.3



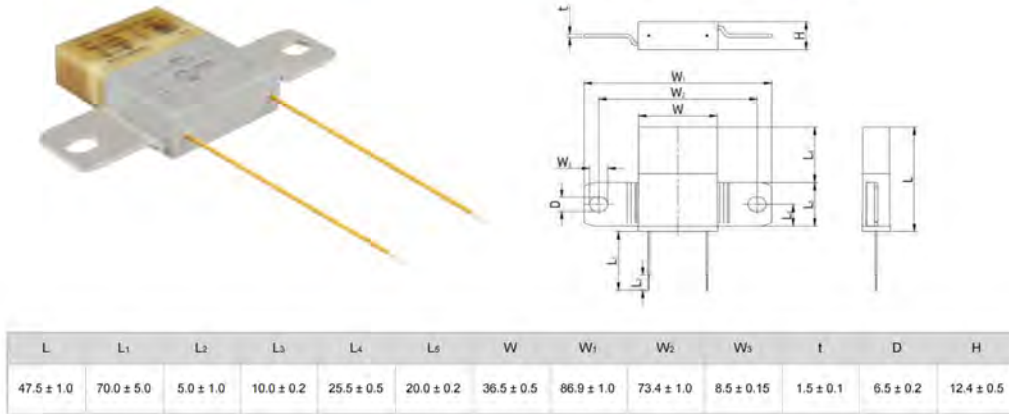
包装 | Packing

Tape (mm)	Reel (inch)	数量 Quantity
24	13	1500

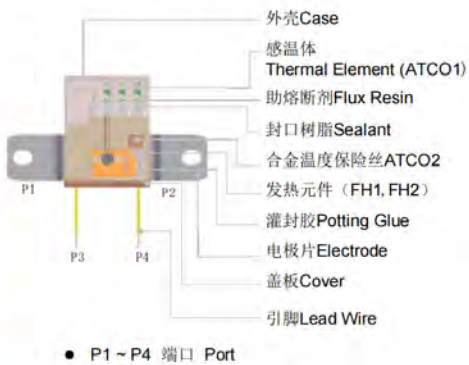
时间-电流曲线图 | Time Current Curve



尺寸Dimensions (mm)



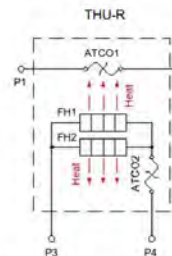
结构图Structure Diagrams



特性Features

- 低阻抗, 低功耗
Low Impedance, Low Power Consumption
- MC受控熔断时间 ≤ 60 秒
MC Controlled Fusing Time ≤ 60 s
- 一次性动作而不可复位
Non-Resettable
- 主动控制
Active Control
- 过温保护
Over Temp. Protection
- 自控保护
Self-Control Protection
- 符合RoHS & REACH
RoHS & REACH Compliant

产品原理图Product Schematic



- P1 ~ P2 主电路 Main Circuit (MC)
- P3 ~ P4 控制电路 Control Circuit (CC)

应用 Application

- 电动摩托车、电动高尔夫球车
Electric Motorcycle, Electric Golf Cart
- 电动游艇、家庭储能
Electric Yacht, Household Energy Storage
- 基站电源、蓄电池
Base Station Power Supply, Battery

安规认证Agency Approvals

认证标志Agency Mark	标准Standards	认证号File No.
	UL60691	E214712
	CAN-CSA-E60691	E214712



型号说明Part Number System

ITCO - THU145 - R1N - UGZ

最小工作电流Minimum Operating Current (A)
Z: 无熔丝Without Inbuilt Fuse

额定电压Rated Voltage (VDC)
G: 80

额定电流Rated Current (A)
U: 200
W: 270

遥控信号Remote Signal
N: 无遥控信号Without Remote Signal

加热电阻额定电压Rated Voltage of FH (VDC)
R1: 12
R2: 24
R4: 36
R5: 48

MC 额定动作温度
Rated Functioning Temp. of MC (°C)
145

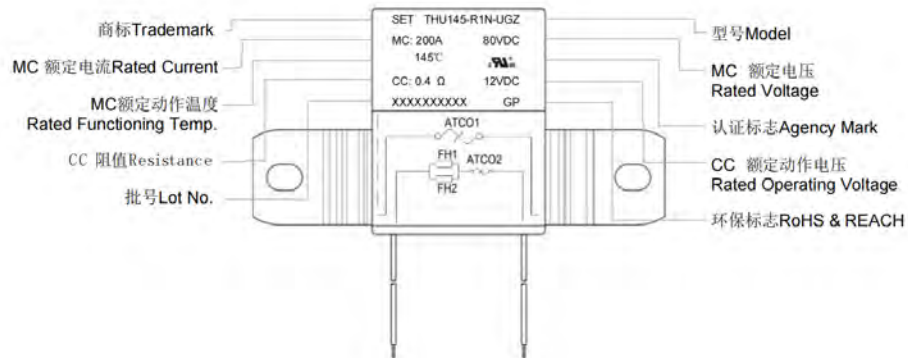
系列Series
THUxxx-R

产品类别Product Category
受控熔断器idea Thermal-Link

ITCO

产品标示Marking

ITCO



术语Glossary

项目Item	说明Description
iTCO	受控熔断器idea Thermal-Link 接收控制信号后能自行熔断的保护器。 After receiving control signals to fuse the protector.
TCO	热熔断体Thermal-Link 热熔断体也称为热断路器或温度保险丝，在本文中这些不同名词都代表同样的产品，为一次性动作而不可复位的装置。 A non-resettable device incorporating a thermal element which will open a circuit once only when exposed for a sufficient length of time to a temp. in excess of that for which it has been designed.
ATCO	合金型温度保险丝Alloy Thermal-Link 合金型温度保险丝，由易熔合金作为感温部件的热熔断体。 Alloy type Thermal-Link, Alloy is thermal element.
FH	发热元件Feed Heater 利用电能达到加热效果的元器件。 Electric appliances that use electric energy to achieve heating effect.
MC	主电路Main Circuit 电路中用作闭合或断开电路的开关器件的所有导电部件。 All conductive components used in switching devices for closing or disconnecting circuits in a circuit.
CC	控制电路Control Circuit 除主电路外，接入电路中用作开关电器的闭合操作和、或断开操作的开关电器所有导电部件。 In addition to the main circuit, all conductive parts of the switching apparatus used in the access circuit as the closing operation and / or opening operation of the switching apparatus.
I_r	额定电流 Rated Current 受控熔断器分类用，允许用于电路并安全断开的最大电流。 The current used to classify an iTCO, which is the Maximum current that iTCO allows to carry and is able to cut off the circuit safely.
U_r	额定电压 Rated Voltage 受控熔断器分类用，允许用于电路并安全断开的最高电压。 The voltage used to classify an iTCO, which is the Maximum voltage that iTCO allows to carry and is able to cut off the circuit safely.
T_r	额定动作温度 Rated Functioning Temp. 通10 mA以下的负载电流时，加热使温度保险丝断开的温度。 The temperature of the Thermal-Link which causes it to change the state of conductivity with a detection current up to 10 mA as the only load. Tolerance: $T_r 0 / -10$ °C (GB 9816, EN 60691, K60691). Tolerance: $T_r \pm 7$ °C (J60691).
Fusing Temp.	实测熔断温度Fusing Temp. 置于油池中，通10 mA以下的负载电流，每分钟升温(0.5 ~ 1) °C，测断开温度。 The temp. of the iTCO which causes it to change its state of conductivity is measured with silicone oil bath in which the temp. is increased at the rate of (0.5 to 1) °C /minutes, with a detection current less than 10 mA as the only load.
T_h	保持温度Holding Temp. 持续通额定电流168小时不断开的最高温度。 The Maximum temp. at which a iTCO will not change its state of conductivity when conducting rated current for 168 h.
T_m	极限温度 Maximum Temp. Limit 在规定的时间内不破坏机械和电气特性所能承受的最高温度。 The temp. of the iTCO stated by the manufacturer, up to which the mechanical and electrical properties of the iTCO having changed its state of conductivity, will not be impaired for a given time.

技术参数 Specifications

型号 Model	主电路参数 Main Circuit Specifications						控制电路参数 Control Circuit Specifications		熔断时间 Fusing Time		认证标志 Agency Mark	
	额定 动作 温度 T_i	实测熔 断温度 Fusing Temp.	保持 温度 T_h	极限 温度 T_m	额定 电流 I_r	额定 电压 U_r	额定动 作电压 Rated Operating Voltage U_r	阻值 Cold Resistance	t_{mc} (P1 ~ P2)	t_{cc} (P3 ~ P4)		
	(°C)	(°C)	(°C)	(°C)	(A)	(VDC)	(VDC)	(Ω)	(s)	(s)	UL	cUL
THU145-R1N-UGZ	145	139 ± 4	85	180	200	80	12	0.4 ± 0.1	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R2N-UGZ	145	139 ± 4	85	180	200	80	24	1.5 ± 0.3	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R4N-UGZ	145	139 ± 4	85	180	200	80	36	3.4 ± 0.3	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R5N-UGZ	145	139 ± 4	85	180	200	80	48	6.0 ± 1.0	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R1N-WGZ	145	139 ± 4	85	180	270	80	12	0.4 ± 0.1	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R2N-WGZ	145	139 ± 4	85	180	270	80	24	1.5 ± 0.3	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R4N-WGZ	145	139 ± 4	85	180	270	80	36	3.4 ± 0.3	≤ 60	$t_{mc} + (0 \sim 30)$	●	●
THU145-R5N-WGZ	145	139 ± 4	85	180	270	80	48	6.0 ± 1.0	≤ 60	$t_{mc} + (0 \sim 30)$	●	●

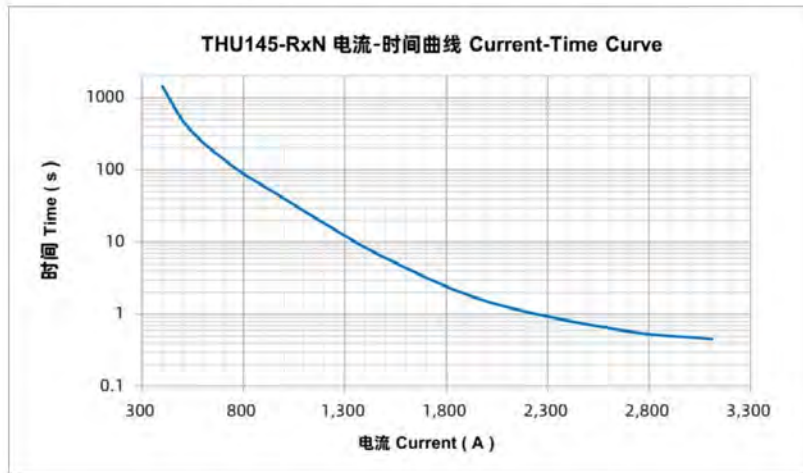
ITCO

ITCO

产品电流-时间曲线（仅供参考） Product Current-Time Curve (Reference)

描绘了受控熔断器在 $(25 \pm 2)^\circ\text{C}$ 室温中，不同倍数额定电流下的断开时间。

The Current-Time Curve shows functioning time at multi-times rated current at room temperature $(25 \pm 2)^\circ\text{C}$.

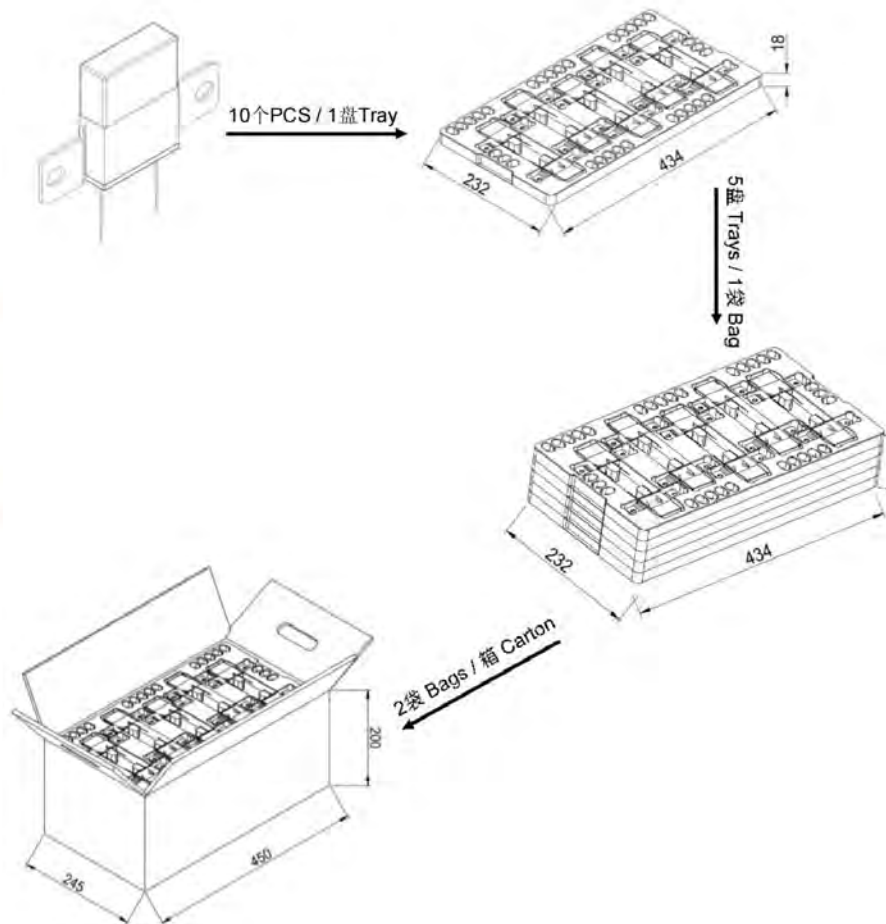


ITCO

ITCO

包装信息Packaging Information

项目Item	吸塑盘Tray	PE袋Bag	外箱 Carton
尺寸Dimensions (mm)	434 × 232 × 18	434 × 232 × 95	450 × 245 × 200
数量Quantity (PCS)	10	50	100
毛重Gross Weight (kg)			9.9 ± 10 %





注意

ATTENTION

ITCO

使用方法Usage

1. 大气压：(80 ~ 106) kPa, 海拔高度：(-500 ~ 2000) m。
When atmosphere press is from 80 kPa to 106 kPa, the related altitude shall be from 2,000 meter to -500 meter.
2. 工作电压/工作电流应小于额定电压/额定电流。
Operating voltage shall be less than rated voltage of iTCO, operating current shall be less than rated current of iTCO.
3. 通电时请勿直接触摸ITCO本体或引线，以免引起灼伤或触电。
Do not touch the iTCO body or electrode lead directly when power is on, to avoid burn or electric shock.

ITCO

电气连接Electrical Connections

机械连接MC Mechanical Connection MC

1. 产品表面无损坏。
The product surface must not be damaged.
2. 如果在电极片上增加端子，请确保电极片上没有油脂或其他异物，并使用相同截面的连接端子，否则电极片可能会异常发热。
If adding terminals to electrode leads, make sure the electrode without grease or other foreign matters, and use the same cross-section connection terminal, otherwise the electrode may heat abnormally.
3. 如果用螺钉锁紧以防止松动，请在安装产品时添加垫圈并使用适当的螺钉，且需确保螺钉锁紧的扭矩满足要求。
If locking with screw, to prevent loosening, please add gasket and use proper screw when installing the product. Ensure that the screw tightening torque meets the requirements.

焊接CC Soldering CC

1. 焊接应在表-1中列出的焊接条件下进行。
Soldering should be carried out under the soldering conditions listed in table -1.
2. 控制电路CC，包含易熔合金，若焊接操作不当（焊接温度过高，焊接时间过长，引线太短等）可能会导致CC 提前断开。
Feed heater and remote signal CC, improper soldering operation (too high soldering temperature, too long soldering time, too short lead wire etc.) may cause CC to open in advance.
3. 当焊接条件比表-1中列出的条件更严苛时，应在焊点和ITCO主体之间使用散热器固定装置。
When soldering conditions are more severe than those listed in table -1, a heat sink fixture should be used between solder point and iTCO body.

表-1手工焊接时间Table -1 Hand - Soldering Time (s)

不同引线长度的最大允许焊接时间(s) The Max. Allowable Soldering Time for Different Lead Length (s)						
引线长度 Lead Length	最大允许焊接时间 Max. Allowable Soldering Time	引线长度Lead Length	最大允许焊接时间 Max. Allowable Soldering Time	引线长度 Lead Length	最大允许焊接时间 Max. Allowable Soldering Time	最高焊接温度 Max. Soldering Temp.
(mm)	(s)	(mm)	(s)	(mm)	(s)	(°C)
≤10	8	10 ~ 20	9	20 ~ 30	9	400

测试方法Test Methods

电阻测试 Cold Resistance Test

1. 如果产品的电阻温度系数不低于350 E (-6) / °C，并且测试环境温度在15 °C 至35 °C 之间，应根据电阻温度系数公式将测得的电阻值校正为25 °C 下的相对电阻值。
If product TCR is not less than 350 E (-6) / °C and the test ambient Temperature is during 15 °C to 35 °C, the measured resistance value shall be corrected as the relative resistance value under 25 °C according to TCR formula.
2. 电阻测量（四探针）
Resistance Measurement (4 - wire).

更换 Replacement

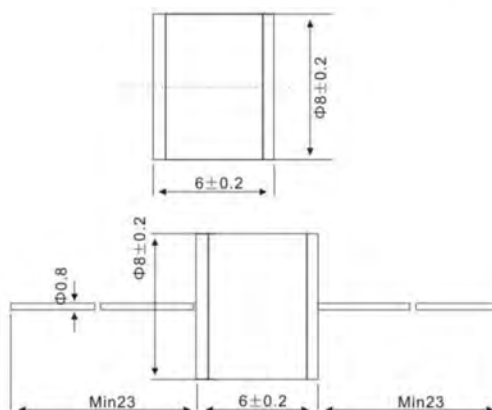
受控熔断器是不可修复的产品。基于安全原因，请使用同型号的受控熔断器进行替换。
ITCO is the non-resettable product, for safety sake, please use the same type of iTCO for replacement.

存贮Storage

受控熔断器必须避免日光照射及污染的环境，且在温度(10 ~ 30) °C、湿度(30 ~ 70) %的条件下保存，以免影响引线的可焊性和接触电阻。产品应在收到货物后一年内使用。
And iTCO must be kept in a place with no sunshine or no pollution, with temp. (10 to 30) °C and humidity within (30 to 70) %. To avoid influencing the solder-ability of the leads and influencing contact resistance, please use them up within 1 year after receiving the goods.



ZM86二极放电管/2-electrode gas discharge tube

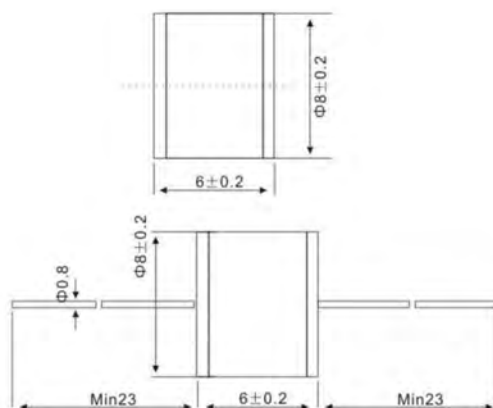


技术参数/Technical data

型号(无引线)Φ8×6mm Type(have no lead wire)Φ8×6mm	ZM86 2R-75	ZM86 2R-90	ZM86 2R-150	ZM86 2R-230	ZM86 2R-250	ZM86 2R-350	ZM86 2R-500	ZM86 2R-600	ZM86 2R-800
型号(有引线)Φ8×6mm Type(have lead wire)Φ8×6mm	ZM86 2R-75L	ZM86 2R-90L	ZM86 2R-150L	ZM86 2R-230L	ZM86 2R-250L	ZM86 2R-350L	ZM86 2R-500L	ZM86 2R-600L	ZM86 2R-800L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	250	350	500	600	800
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±20	±20	±20	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤600	≤900	≤1100	≤1200	≤1400
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤750	≤1000	≤1200	≤1300	≤1600
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA)1 times	4	4	4	4	4	4	4	4	4
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	20	20	20	20	20	20	20	15	10
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	20	20	20	20	20	20	20	20	20
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3



ZM86-2二极放电管/2-electrode gas discharge tube

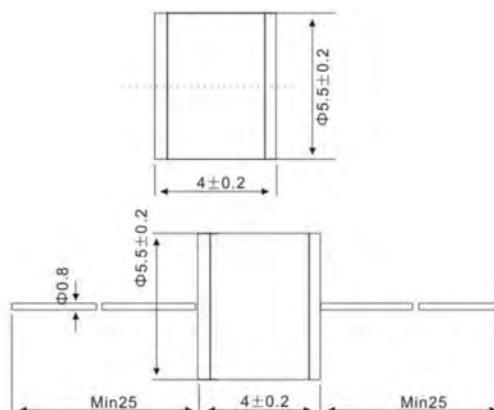


技术参数/Technical data

型号(无引线)Φ8×6mm Type(have no lead wire)Φ8×6mm	ZM86 2R-1000	ZM86 2R-1400	ZM86 2R-2100	ZM86 2R-2500	ZM86 2R-3000	ZM86 2R-3600
型号(有引线)Φ8×6mm Type(have lead wire)Φ8×6mm	ZM86 2R-1000L	ZM86 2R-1400L	ZM86 2R-2100L	ZM86 2R-2500L	ZM86 2R-3000L	ZM86 2R-3600L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	1000	1400	2100	2500	3000	3600
直流击穿电压偏差(V)% Deviation of VS (V)%	±20	±20	±20	±20	±20	±20
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<2200	<2700	<3200	<3500	<4000	<4500
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1 times	3	2	2	2	2	1.5
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	10	5	5	3	3	3
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	100/300	100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	10	10	5	5	5	5
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3



ZM554 二极放电管/2-electrode gas discharge tube

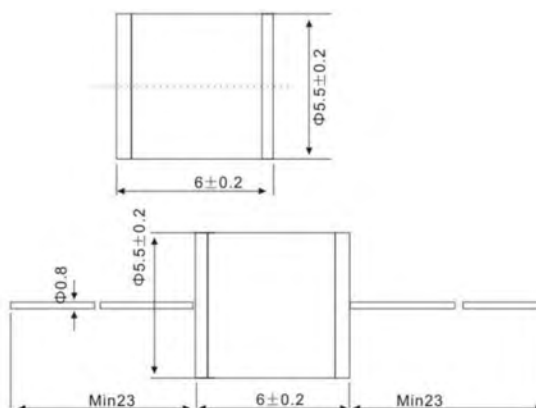


技术参数/Technical data

型号(无引线)Φ5.5×4mm Type(have no lead wire)Φ5.5×4mm	ZM554 2R-75	ZM554 2R-90	ZM554 2R-150	ZM554 2R-230	ZM554 2R-350	ZM554 2R-470	ZM554 2R-600
型号(有引线)Φ5.5×4mm Type(have lead wire)Φ5.5×4mm	ZM554 2R-75L	ZM554 2R-90L	ZM554 2R-150L	ZM554 2R-230L	ZM554 2R-350L	ZM554 2R-470L	ZM554 2R-600L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	350	470	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤900	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤1000	≤1100	≤1300
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA)1times	2	2	2	2	2	2	2
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	10	10	10	5	5	5	5
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	100/300	100/300	100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	5	5	5	5	5	5	5
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1	≤1	≤1	≤1	≤1	≤1	≤1



ZM556二极放电管/2-electrode gas discharge tube

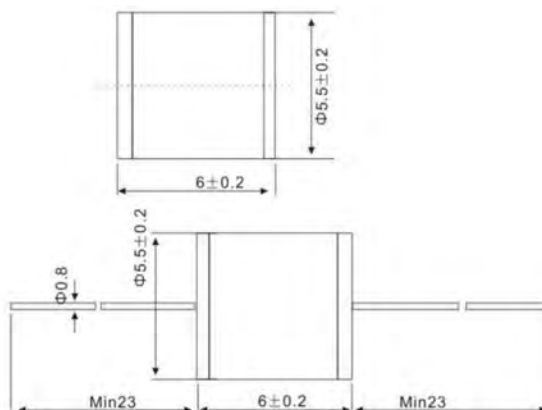


技术参数/Technical data

型号(无引线)Φ5.5×6mm Type(have no lead wire)Φ5.5×6mm	ZM556 2R-75	ZM556 2R-90	ZM556 2R-150	ZM556 2R-230	ZM556 2R-350	ZM556 2R-470	ZM556 2R-600
型号(有引线)Φ5.5×6mm Type(have lead wire)Φ5.5×6mm	ZM556 2R-75L	ZM556 2R-90L	ZM556 2R-150L	ZM556 2R-230L	ZM556 2R-350L	ZM556 2R-470L	ZM556 2R-600L
标称直流击穿电压100V/s(V) Nominal DC Spark-over voltage 100V/s(V)	75	90	150	230	350	470	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤800	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤900	≤1100	≤1300
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1 times	1.5	1.5	1.5	1.5	1.5	1.5	1.5
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	10	10	10	5	5	5	3
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	100/300	100/300	100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	5	5	5	5	5	5	5
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1	≤1	≤1	≤1	≤1	≤1	≤1



ZM556-2二极放电管/2-electrode gas discharge tube

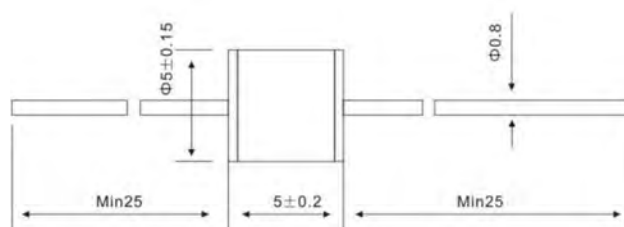


技术参数/Technical data

型号(无引线)Φ5.5×6mm Type(have no lead wire)Φ5.5×6mm	ZM556 2R-800	ZM556 2R-1000	ZM556 2R-2500	ZM556 2R-3000	ZM556 2R-3600	ZM556 2R-4000
型号(有引线)Φ5.5×6mm Type(have lead wire)Φ5.5×6mm	ZM556 2R-800L	ZM556 2R-1000L	ZM556 2R-2500L	ZM556 2R-3000L	ZM556 2R-3600L	ZM556 2R-4000L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	800	1000	2500	3000	3600	4000
直流击穿电压偏差(V)% Deviation of VS (V)%	±20	±20	±20	±20	±20	±20
最大冲击击穿电压1KV/μs(V) Maximum impulse spark-over voltage 1KV/μs(V)	≤1600	≤2200	≤4000	≤4500	≤4800	≤5300
耐冲击电流8/20μs(KA)±5次 Impulse discharge current 8/20μs(KA)±5times	2.5	2.5	2	2	2	2
最大耐冲击电流8/20μs(KA)1次 Maximum impulse discharge current 8/20μs(KA) 1times	5	5	5	5	5	5
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	5	3	1	1	1	1
绝缘电阻(Ω) Insulation resistance (Ω)	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<1	<1	<1	<1	<1	<1



ZM55 二极放电管/2-electrode gas discharge tube

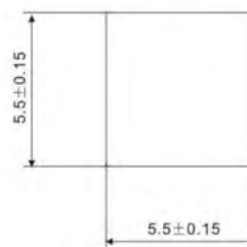


技术参数/Technical data

型号(无引线)Φ5×5mm Type(have no lead wire)Φ5×5mm	ZM55 2R-75	ZM55 2R-90	ZM55 2R-150	ZM55 2R-230	ZM55 2R-350	ZM55 2R-470	ZM55 2R-600
型号(有引线)Φ5×5mm Type(have lead wire)Φ5×5mm	ZM55 2R-75L	ZM55 2R-90L	ZM55 2R-150L	ZM55 2R-230L	ZM55 2R-350L	ZM55 2R-470L	ZM55 2R-600L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	350	470	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤800	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤900	≤1100	≤1300
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	1.5	1.5	1.5	1.5	1.5	1.5	1.5
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	10	10	10	5	5	5	5
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	100/300	100/300	100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	5	5	5	5	5	5	5
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1	≤1	≤1	≤1	≤1	≤1	≤1



ZM554TP贴片放电管/SMD gas discharge tube

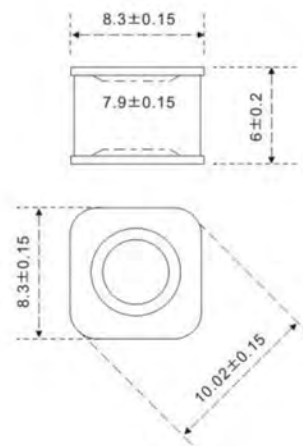


技术参数/Technical data

型号(贴片)5.5x5.5x4mm Type(SMD)5.5x5.5x4mm	ZM554 75TP	ZM554 90TP	ZM554 150TP	ZM554 230TP	ZM554 350TP	ZM554 470TP	ZM554 600TP
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	350	470	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤900	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤1000	≤1100	≤1300
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1 times	2	2	2	2	2	2	2
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	10	10	10	5	5	5	5
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	100/300	100/300	100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	5	5	5	5	5	5	5
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1	≤1	≤1	≤1	≤1	≤1	≤1



ZM86TP贴片放电管/SMD gas discharge tube

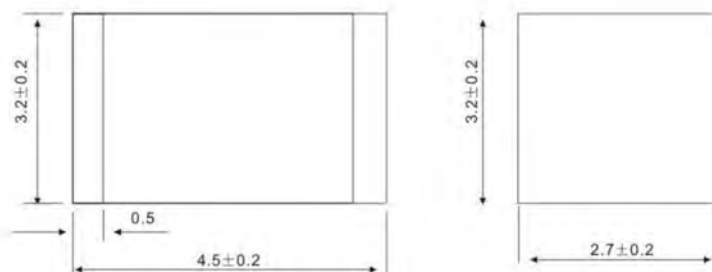


技术参数/Technical data

型号(贴片)8.3x6mm Type(SMD)8.3x6mm	ZM86 75TP	ZM86 90TP	ZM86 150TP	ZM86 230TP	ZM86 350TP	ZM86 500TP	ZM86 600TP
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	350	500	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤900	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤1000	≤1100	≤1300
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1 times	4	4	4	4	4	4	4
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	20	20	20	20	20	20	15
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	20	20	20	20	20	20	20
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1.3	≤1.3	≤1.3	≤1.3	≤1.3	≤1.3	≤1.3



ZM45TP贴片放电管/SMD gas discharge tube



技术参数/Technical data

型号(贴片)3.2×2.7×4.5mm Type(SMD)3.2×2.7×4.5mm	ZM45 75TP	ZM45 90TP	ZM45 120TP	ZM45 150TP	ZM45 175TP	ZM45 200TP	ZM45 230TP	ZM45 300TP	ZM45 350TP	ZM45 400TP	ZM45 470TP
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	120	150	175	200	230	300	350	400	470
直流击穿电压偏差(V)% Deviation of VS (V) %	±30	±30	±30	±30	±30	±30	±30	±25	±25	±25	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤550	≤600	≤600	≤650	≤650	≤750	≤800	≤900	≤1000
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤700	≤750	≤750	≤850	≤900	≤1000	≤1100
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	2	2	2	2	2	2	2	2	2	1.5	1.5
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	25/300	25/300	25/300	25/300	25/300	25/300	25/300	25/300	25/300	25/300	25/300
耐工频电流50Hz 5次(A) Alternating discharge current 50Hz 5times(A)	2	2	2	2	2	2	2	2	2	2	2
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8



ZM32TP贴片放电管/SMD gas discharge tube

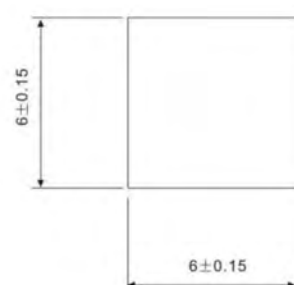
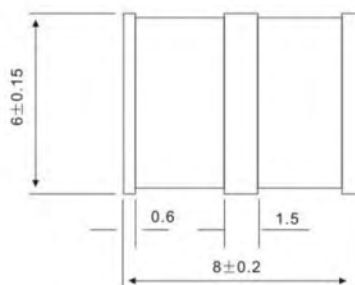


技术参数/Technical data

型号(贴片)1.6×1.6×3.2mm Type(SMD)1.6×1.6×3.2mm	ZM32 90TP	ZM32 120TP	ZM32 150TP	ZM32 200TP	ZM32 230TP	ZM32 300TP	ZM32 350TP	ZM32 400TP
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	90	120	150	200	230	300	350	400
直流击穿电压偏差(V)% Deviation of VS (V)%	±30	±30	±30	±30	±30	±25	±25	±25
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤650	≤700	≤750	≤750	≤850	≤900	≤1000
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6	≤0.6



ZM668TP贴片放电管/SMD gas discharge tube

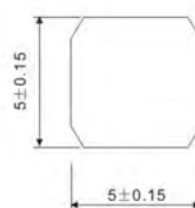
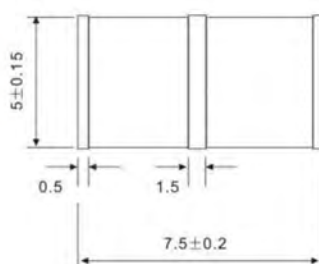


技术参数/Technical data

型号(贴片)6×6×8mm Type(SMD)6×6×8mm	ZM668 3R-75TP	ZM668 3R-90TP	ZM668 3R-150TP	ZM668 3R-230TP	ZM668 3R-250TP	ZM668 3R-350TP	ZM668 3R-470TP
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	250	350	470
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤600	≤800	≤1000
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤750	≤800	≤900	≤1100
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1times	2	2	2	2	2	2	2
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	20	20	20	20	20	15	10
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	10	10	10	10	10	10	10
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
横向电压持续时间(ns) Transverse voltage duration(ns)	≤200	≤200	≤200	≤200	≤200	≤200	≤200



ZM5575TP贴片放电管/SMD gas discharge tube

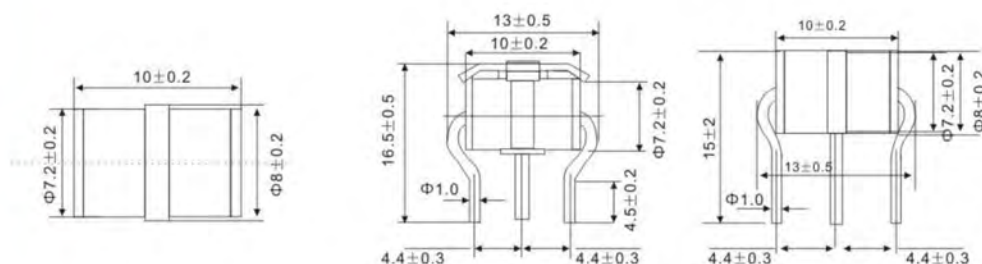


技术参数/Technical data

型号(贴片)5×5×7.5mm Type(SMD)5×5×7.5mm	ZM5575 3R-75TP	ZM5575 3R-90TP	ZM5575 3R-150TP	ZM5575 3R-230TP	ZM5575 3R-350TP
标称直流击穿电压100V/s(V) Nominal DC Spark-over voltage 100V/s(V)	75	90	150	230	350
直流击穿电压偏差(V)% Deviation of VS (V)%	±30	±30	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤800
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤750	≤900
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1 times	1.5	1.5	1	1	1
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	10	10	10	10	10
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	10	10	10	10	10
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<1.2	<1.2	<1.2	<1.2	<1.2
横向电压持续时间(ns) Transverse voltage duration(ns)	≤200	≤200	≤200	≤200	≤200



ZM72810三极放电管/3-electrode gas discharge tube

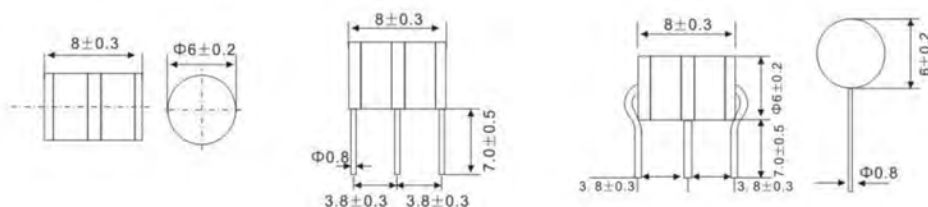


技术参数/Technical data

型号(无引线)Φ7.2/8×10mm 左图 Type(No lead) Φ7.2/8×10mm Left	ZM72810 3R-75	ZM72810 3R-90	ZM72810 3R-150	ZM72810 3R-230	ZM72810 3R-250	ZM72810 3R-350	ZM72810 3R-470	ZM72810 3R-600
型号(有引线和失效保护)Φ7.2/8×10mm 中图 Type(crooked lead with fail-safe protector) Φ7.2/8×10mm Middle	ZM72810 3R-75BF	ZM72810 3R-90BF	ZM72810 3R-150BF	ZM72810 3R-230BF	ZM72810 3R-250BF	ZM72810 3R-350BF	ZM72810 3R-470BF	ZM72810 3R-600BF
型号(弯引线)Φ7.2/8×10mm 右图 Type(crooked lead wires) Φ7.2/8×10mm Right	ZM72810 3R-75B	ZM72810 3R-90B	ZM72810 3R-150B	ZM72810 3R-230B	ZM72810 3R-250B	ZM72810 3R-350B	ZM72810 3R-470B	ZM72810 3R-600B
标称直流击穿电压100V/s(V) Nominal DC Spark-over voltage 100V/s(V)	75	90	150	230	250	350	470	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±25	±20	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤600	≤800	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤700	≤750	≤900	≤1100	≤1300
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1times	4	4	4	3	3	2	2	2
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	25	25	25	25	25	25	20	20
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	20	20	20	20	20	20	20	20
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
横向电压持续时间(ns) Transverse voltage duration(ns)	<200	<200	<200	<200	<200	<200	<200	<200



ZM68三极放电管/3-electrode gas discharge tube

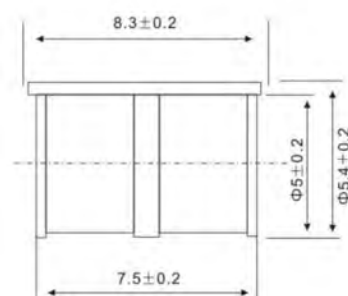


技术参数/Technical data

型号(无引线) Φ6×8mm 左图 Type(No lead) Φ6×8mm Left	ZM68 3R-75	ZM68 3R-90	ZM68 3R-150	ZM68 3R-230	ZM68 3R-250	ZM68 3R-350	ZM68 3R-470
型号(直引线) Φ6×8mm 中图 Type(straight lead) Φ6×8mm Middle	ZM68 3R-75L	ZM68 3R-90L	ZM68 3R-150L	ZM68 3R-230L	ZM68 3R-250L	ZM68 3R-350L	ZM68 3R-470L
型号(弯引线) Φ6×8mm 右图 Type(crooked lead wires) Φ6×8mm Right	ZM68 3R-75B	ZM68 3R-90B	ZM68 3R-150B	ZM68 3R-230B	ZM68 3R-250B	ZM68 3R-350B	ZM68 3R-470B
标称直流击穿电压100V/s(V) Nominal DC Spark-over voltage 100V/s(V)	75	90	150	230	250	350	470
直流击穿电压偏差(V)% Deviation of VS (V)%	±30	±30	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤500	≤500	≤600	≤600	≤800	≤1000
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤600	≤650	≤750	≤800	≤900	≤1100
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA)1times	2	2	2	2	2	2	2
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	20	20	20	20	20	15	10
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	10	10	10	10	10	10	10
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
横向电压持续时间(ns) Transverse voltage duration(ns)	≤200	≤200	≤200	≤200	≤200	≤200	≤200



ZM575三极放电管/3-electrode gas discharge tube

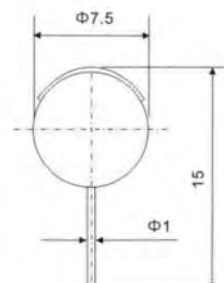
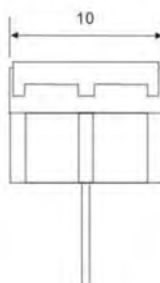


技术参数/Technical data

型号 Φ5×7.5mm Type Φ5×7.5mm	左图 Left	ZM575 3R-75	ZM575 3R-90	ZM575 3R-150	ZM575 3R-230	ZM575 3R-350
型号(有失效保护) Φ5×7.5mm Type(with fail-safe protector) Φ5×7.5mm	右图 Right	ZM575 3R-75F	ZM575 3R-90F	ZM575 3R-150F	ZM575 3R-230F	ZM575 3R-350F
标称直流击穿电压100V/s(V) Nominal DC Spark-over voltage 100V/s(V)		75	90	150	230	350
直流击穿电压偏差(V)% Deviation of VS (V)%		±30	±30	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)		≤500	≤500	≤500	≤600	≤800
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)		≤600	≤600	≤650	≤750	≤900
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times		1.5	1.5	1	1	1
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times		10	10	10	10	10
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)		100/300	100/300	100/300	100/300	100/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)		10	10	10	10	10
绝缘电阻(Ω) Insulation resistance (Ω)		≥10 ⁸	≥10 ⁸	≥10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF		<1.2	<1.2	<1.2	<1.2	<1.2
横向电压持续时间(ns) Transverse voltage duration(ns)		≤200	≤200	≤200	≤200	≤200

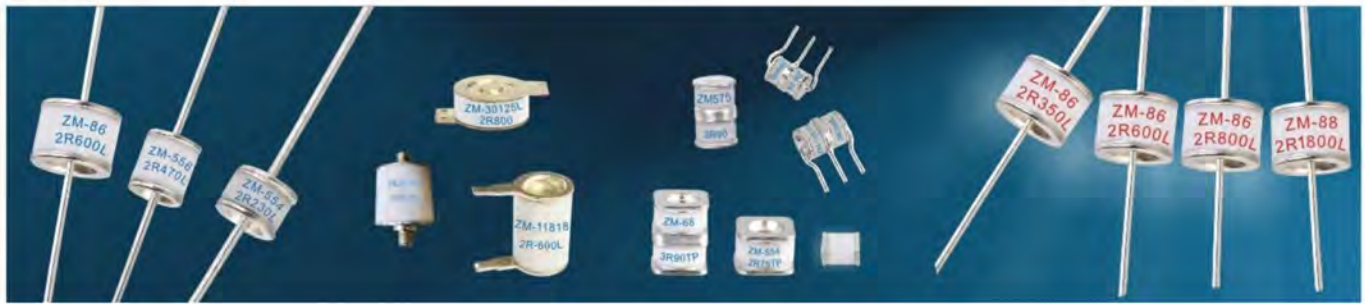


ZM7510三极放电管/3-electrode gas discharge tube

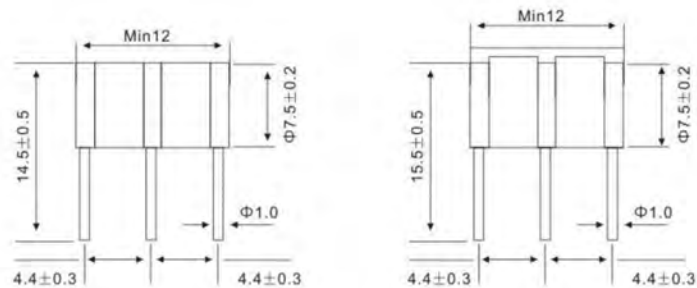


技术参数/Technical data

型号(有引线 and 失效保护) $\Phi 7.5 \times 10\text{mm}$ Type(lead wire with fail-safe protector) $\Phi 7.5 \times 10\text{mm}$	ZM7510 3R-75LF	ZM7510 3R-90LF	ZM7510 3R-150LF	ZM7510 3R-230LF	ZM7510 3R-250LF	ZM7510 3R-350LF	ZM7510 3R-470LF
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	75	90	150	230	250	350	470
直流击穿电压偏差(V)% Deviation of VS (V)%	± 25	± 25	± 20	± 20	± 20	± 20	± 20
冲击击穿电压100V/ μs (V) Impulse spark-over voltage 100V/ μs (V)	≤ 500	≤ 500	≤ 500	≤ 600	≤ 600	≤ 800	≤ 1000
冲击击穿电压1KV/ μs (V) Impulse spark-over voltage 1KV/ μs (V)	≤ 600	≤ 600	≤ 650	≤ 700	≤ 750	≤ 900	≤ 1100
耐冲击电流10/350 μs (KA) 1次 Impulse discharge current 10/350 μs (KA) 1 times	4	4	4	3	3	2	2
耐冲击电流8/20 μs (KA) 10次 Impulse discharge current 8/20 μs (KA) 10 times	20	20	20	20	20	20	15
耐冲击电流10/1000 μs (A/次) Impulse discharge current 10/1000 μs (A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10 times(A)	20	20	20	20	20	10	10
绝缘电阻(Ω) Insulation resistance (Ω)	$\geq 10^8$	$\geq 10^8$	$\geq 10^9$	$> 10^9$	$> 10^9$	$> 10^9$	$> 10^9$
电容(1 MHz) pF Capacitance (1 MHz) pF	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5	≤ 1.5
横向电压持续时间(ns) Transverse voltage duration(ns)	≤ 200	≤ 200	≤ 200	≤ 200	≤ 200	≤ 200	≤ 200



ZM75115三极放电管/3-electrode gas discharge tube

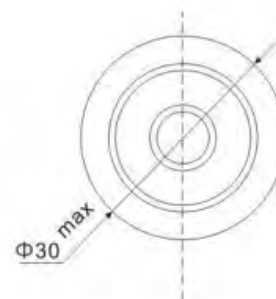
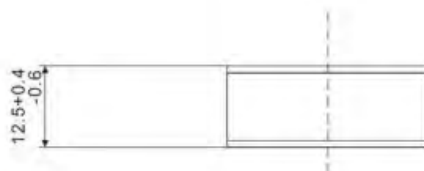


技术参数/Technical data

型号(有引线无失效保护) Φ7.5×11.5mm Type(crooked lead wires without fail-safe protector) Φ7.5×11.5mm	ZM75115 3R-90L	ZM75115 3R-150L	ZM75115 3R-230L	ZM75115 3R-250L	ZM75115 3R-350L	ZM75115 3R-470L	ZM75115 3R-600L
型号(有引线有失效保护) Φ7.5×11.5mm Type(crooked lead wires with fail-safe protector) Φ7.5×11.5mm	ZM75115 3R-90LF	ZM75115 3R-150LF	ZM75115 3R-230LF	ZM75115 3R-250LF	ZM75115 3R-350LF	ZM75115 3R-470LF	ZM75115 3R-600LF
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	90	150	230	250	350	470	600
直流击穿电压偏差(V)% Deviation of VS (V)%	±25	±20	±20	±20	±20	±20	±20
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	≤500	≤550	≤600	≤650	≤800	≤1000	≤1200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤600	≤650	≤750	≤800	≤900	≤1100	≤1300
耐冲击电流10/350μs(KA)1次 Impulse discharge current 10/350μs(KA) 1times	4	4	3	3	2	2	2
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	20	20	20	20	20	15	10
耐冲击电流10/1000μs(A/次) Impulse discharge current 10/1000μs(A/times)	200/300	200/300	200/300	200/300	200/300	200/300	200/300
耐工频电流50Hz 10次(A) Alternating discharge current 50Hz 10times(A)	10	10	10	10	10	10	10
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁸	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹	>10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5	≤1.5
横向电压持续时间(ns) Transverse voltage duration(ns)	≤200	≤200	≤200	≤200	≤200	≤200	≤200



ZM30125大功率放电管/High-power series

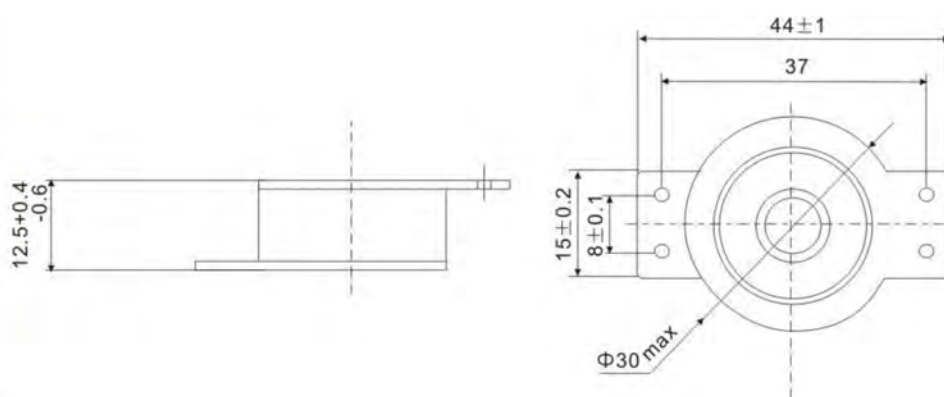


技术参数/Technical data

型号(尺寸)Φ30×12.5mm Type(Size)Φ30×12.5mm	ZM30125 2R-230	ZM30125 2R-300	ZM30125 2R-500	ZM30125 2R-600	ZM30125 2R-700	ZM30125 2R-800	ZM30125 2R-1000	ZM30125 2R-1200	ZM30125 2R-1400
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	230	300	500	600	700	800	1000	1200	1400
直流击穿电压(V) DC spark-over voltage (V)	>180	>240	>400	>480	>550	>600	>750	>900	>1050
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)		<900	<1300	<1400	<1500	<1500	<2200	<2500	
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<900	<1100	<1300	<1500	<1600	<1800	<2200	<2500	<2700
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	95	130	264	264	264	264			
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	65	70	70	70	70	70	65	65	65
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	70	80	80	80	80	80	80	80	80
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	50	50	50	50	50	50	50	50	50
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20	20	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100	100	100	100	100	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ,0.2S(A)	300	300	300	300	300	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<6	<6	<6	<6	<6	<6	<6	<6	<6



ZM30125L大功率放电管/High-power series

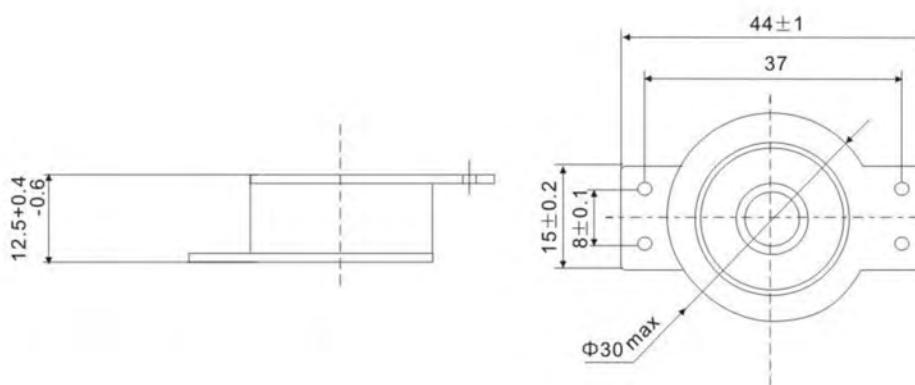


技术参数/Technical data

型号(尺寸)Φ30×12.5mm Type(Size)Φ30×12.5mm	ZM30125 2R-300L	ZM30125 2R-500L	ZM30125 2R-600L	ZM30125 2R-700L	ZM30125 2R-800L	ZM30125 2R-1000L	ZM30125 2R-1200L	ZM30125 2R-1400L	ZM30125 2R-1600L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	300	500	600	700	800	1000	1200	1400	1600
直流击穿电压(V) DC spark-over voltage (V)	>240	>400	>480	>550	>600	>750	>900	>1050	>1250
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)	<900	<1300	<1400	<1500	<1500	<2200	<2500		
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤1100	≤1300	≤1400	≤1500	≤1800	≤2200	≤2500	≤2700	≤3000
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	130	264	264	264	264				
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	65	65	65	65	65	60	60	60	60
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	80	80	80	80	80	70	70	70	70
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	50	50	50	50	50	50	50	50	50
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20	20	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100	100	100	100	100	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ,0.2S(A)	300	300	300	300	300	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<6	<6	<6	<6	<6	<6	<6	<6	<6



ZM30125L1大功率放电管/High-power series

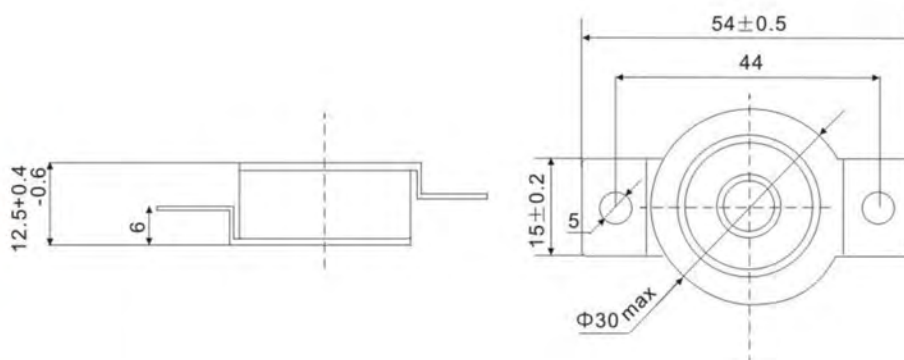


技术参数/Technical data

型号(尺寸)Φ30×12.5mm Type(Size)Φ30×12.5mm	ZM30125 2R-500L1	ZM30125 2R-600L1	ZM30125 2R-700L1	ZM30125 2R-800L1
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	500	600	700	800
直流击穿电压(V) DC spark-over voltage (V)	>400	>480	>550	>600
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)	<1300	<1400	<1500	<1500
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<1300	<1500	<1800	<2000
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	255	255	255	255
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	100	100	100	100
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	160	160	160	160
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	50	50	50	50
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ,0.2S(A)	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容1 (MHz) pF Capacitance 1 (MHz) pF	<6	<6	<6	<6



ZM30125L2大功率放电管/High-power series

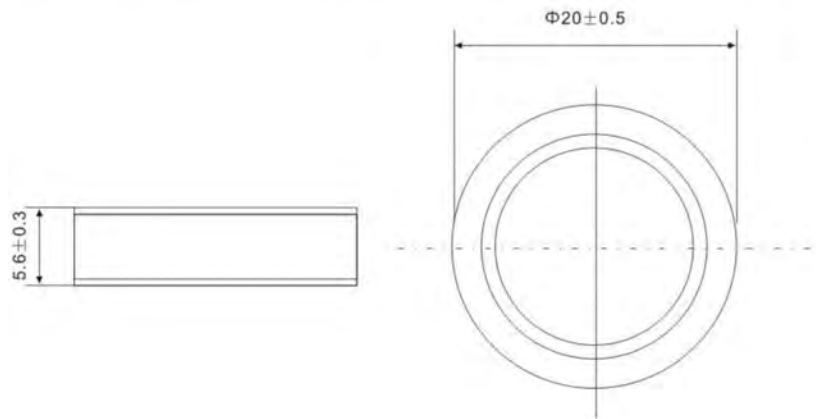


技术参数/Technical data

型号(尺寸)Φ30×12.5mm Type(Size)Φ30×12.5mm	ZM30125 2R-500L2	ZM30125 2R-600L2	ZM30125 2R-700L2	ZM30125 2R-800L2
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	500	600	700	800
直流击穿电压(V) DC spark-over voltage (V)	>400	>480	>550	>600
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)	<1300	<1400	<1500	<1500
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<1300	<1400	<1500	<1800
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	255	255	255	255
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	65	65	65	65
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	80	80	80	80
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	50	50	50	50
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ,0.2S(A)	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<6	<6	<6	<6



ZM2056大功率放电管/High-power series

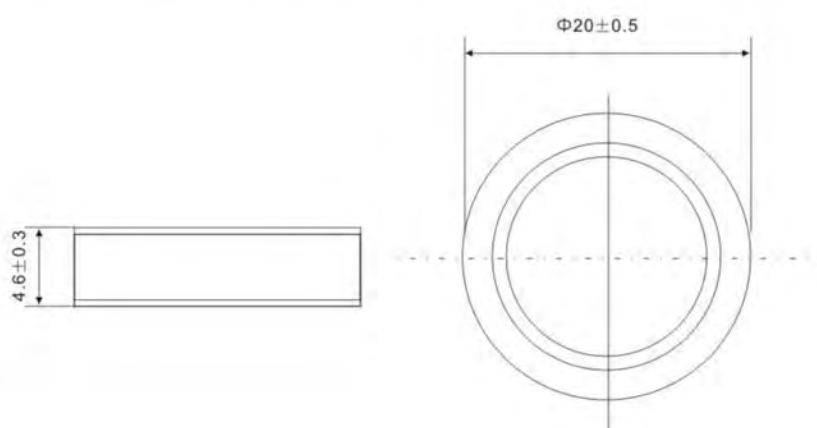


技术参数/Technical data

型号(尺寸)Φ20×5.6mm Type(Size)Φ20×5.6mm	ZM2056 2R-150	ZM2056 2R-230	ZM2056 2R-300	ZM2056 2R-500	ZM2056 2R-600	ZM2056 2R-700	ZM2056 2R-800	ZM2056 2R-1000	ZM2056 2R-1200	ZM2056 2R-1400
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	150	230	300	500	600	700	800	1000	1200	1400
直流击穿电压(V) DC spark-over voltage (V)	>115	>180	>240	>400	>480	>550	>600	>750	>900	>1050
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)			<900	<1300	<1400	<1500	<1500	<2200	<2500	
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤700	≤800	≤1100	≤1300	≤1400	≤1500	≤1700	≤2200	≤2500	≤2700
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	52	95	130	264	264	264	264			
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	70	70	70	70	70	70	70	50	50	50
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	80	80	80	80	80	80	80	60	60	60
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	25	25	25	25	25	25	25	25	25	25
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20	20	20	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100	100	100	100	100	100	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ,0.2S(A)	300	300	300	300	300	300	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<6	<6	<6	<6	<6	<6	<6	<6	<6	<6



ZM2046大功率放电管/High-power series

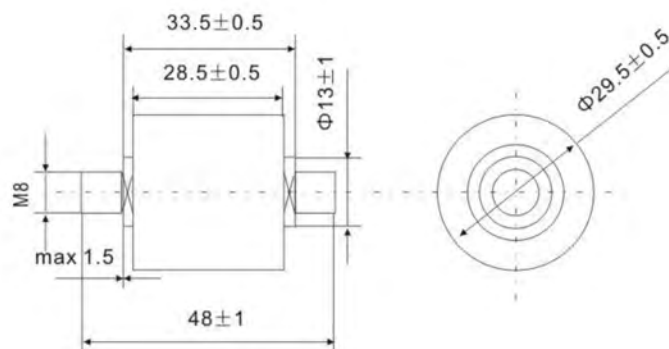


技术参数/Technical data

型号(尺寸)Φ20×4.6mm Type(Size)Φ20×4.6mm	ZM2046 2R-150	ZM2046 2R-230	ZM2046 2R-300	ZM2046 2R-500	ZM2046 2R-600	ZM2046 2R-700	ZM2046 2R-800	ZM2046 2R-1000
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	150	230	300	500	600	700	800	1000
直流击穿电压(V) DC spark-over voltage (V)	>115	>180	>240	>400	>480	>550	>600	>750
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)			<900	<1300	<1400	<1500	<1500	<2200
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	≤700	≤800	≤1100	≤1300	≤1400	≤1500	≤1700	≤2200
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	52	95	130	264	264	264	264	
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	70	70	70	70	70	70	70	65
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	80	80	80	80	80	80	80	80
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	25	25	25	25	25	25	25	25
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100	100	100	100	100
工频放电电流1200V 50HZ 0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ 0.2S(A)	300	300	300	300	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<6	<6	<6	<6	<6	<6	<6	<6



ZM30285L大功率放电管/High-power series

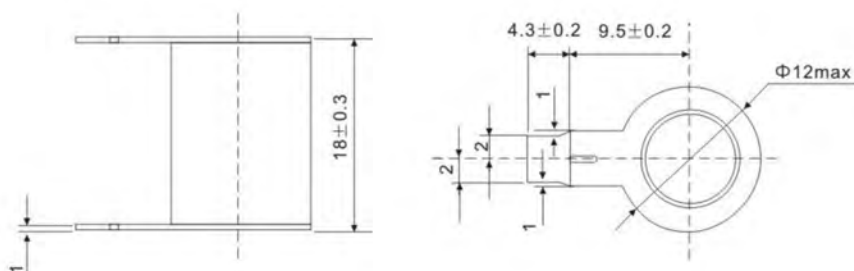


技术参数/Technical data

型号(尺寸)Φ29.5×28.5mm Type(Size)Φ29.5×28.5mm	ZM30285L 2R-800
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	800
直流击穿电压(V) DC spark-over voltage (V)	≥600
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)	<1500
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<2000
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)	255
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	100
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	100
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V)1 operation 50HZ,0.2S(A)	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<10



ZM11818大功率放电管/High-power series

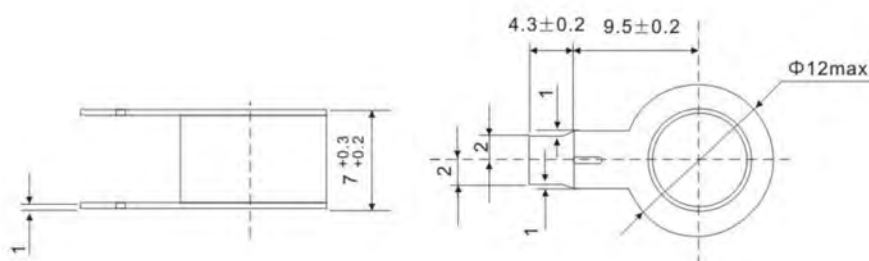


技术参数/Technical data

型号(尺寸)Φ11.8×18mm Type(Size)Φ11.8×18mm	ZM11818 2R-90L	ZM11818 2R-150L	ZM11818 2R-230L	ZM11818 2R-300L	ZM11818 2R-350L	ZM11818 2R-420L	ZM11818 2R-500L	ZM11818 2R-600L	ZM11818 2R-700L	ZM11818 2R-800L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	90	150	230	300	350	420	500	600	700	800
直流击穿电压(V) DC spark-over voltage (V)	≥67	≥115	≥180	≥230	≥270	≥325	≥400	≥480	≥550	≥600
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)	<900	<900	<1000	<1000	<1100	<1200	<1300	<1400	<1500	<1500
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<700	<750	<800	<900	<1000	<1100	<1200	<1300	<1400	<1600
最大连续工作电压50/60HZ(V) Maximum continuous operating voltage 50/60HZ(V)		52	95	130	150	175	255	255	255	255
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	40	40	40	40	40	40	40	40	40	40
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	80	80	80	80	80	80	80	80	80	80
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20	20	20	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100	100	100	100	100	100	100
工频放电电流1200V 50HZ,0.2S1次(A) AC discharge current(TOV at 1200V) 1 operation 50HZ,0.2S(A)	300	300	300	300	300	300	300	300	300	300
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5



ZM1187中功率放电管/Medium-power series



技术参数/Technical data

型号(尺寸)Φ11.8×7mm Type(Size)Φ11.8×7mm	ZM1187 2R-90L	ZM1187 2R-150L	ZM1187 2R-230L	ZM1187 2R-300L	ZM1187 2R-350L	ZM1187 2R-420L	ZM1187 2R-500L	ZM1187 2R-600L	ZM1187 2R-700L	ZM1187 2R-800L
标称直流击穿电压100V/s(v) Nominal DC Spark-over voltage 100V/s(v)	90	150	230	300	350	420	500	600	700	800
直流击穿电压(V) DC spark-over voltage (V)	≥67	≥115	≥180	≥230	≥270	≥325	≥400	≥480	≥550	≥600
波前击穿电压@1.2/50μs 6kv (V) Impulse spark-over voltage at 1.2/50μs 6kv (V)	<900	<900	<1000	<1000	<1100	<1200	<1300	<1400	<1500	<1500
冲击击穿电压100V/μs(V) Impulse spark-over voltage 100V/μs(V)	<600	<650	<700	<800	<900	<1000	<1100	<1200	<1300	<1500
冲击击穿电压1KV/μs(V) Impulse spark-over voltage 1KV/μs(V)	<700	<750	<800	<900	<1000	<1100	<1200	<1300	<1400	<1600
耐冲击电流8/20μs(KA) 10次 Impulse discharge current 8/20μs(KA) 10times	25	25	25	25	25	25	25	25	25	20
最大冲击电流8/20μs(KA) 1次 Maximum discharge current 8/20μs(KA) 1times	30	30	30	30	30	30	30	30	30	25
耐冲击电流10/350μs(KA) 1次 Impulse discharge current 10/350μs(KA) 1times	10	10	10	10	10	10	10	10	10	5
耐交流电流 50HZ/ 60HZ(A) Alternating discharge current 50HZ/ 60HZ(A)	20	20	20	20	20	20	20	20	20	20
续电流@50HZ/ 60HZ(A) Follow current at 50/ 60HZ(A)	100	100	100	100	100	100	100	100	100	100
绝缘电阻(Ω) Insulation resistance (Ω)	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹	≥10 ⁹
电容(1 MHz) pF Capacitance (1 MHz) pF	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3

ZM86 2R230L-800L开关放电管/switching spark gap



技术参数/Technical data

型号 $\Phi 8 \times 6\text{mm}$ Type $\Phi 8 \times 6\text{mm}$	ZM86 230L	ZM86 350L	ZM86 350L	ZM86 400L	ZM86 450L	ZM86 500L	ZM86 600L	ZM86 800L	ZM86 800L
直流击穿电压偏差(V)% Deviation of VS (V)%	230±15%	320±12%	350±10%	400±10%	450±10%	500±10%	600±10%	715±10%	800±10%
即时10万次后直流击穿电压偏差(V)注 Deviation of VS at 100000 ignitions(V) Note	35	40	40	45	50	55	60	70	70
20万次后黑暗中放置24小时首次击穿电压(V) After 200000 ignitions, first spark-over voltage in darkness (V)	<275	<375	<410	<470	<530	<590	<710	<870	<930
开关点火次数 Switching operations(Ignitions)	200000	400000	400000	400000	300000	300000	300000	300000	300000
仪器试验电压(V) Open circuit voltage(V)	230	400	450	450	500	650	900	900	1000
峰值放电电流(A) Discharge peak current(A)	~300	~500	~500	~500	~500	~400	~400	~400	~400
开关频率(Hz) Switching frequency(Hz)	30	150	150	130	120	170	160	100	100
绝缘电阻 (Ω) Insulation resistance (Ω)	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$	$\geq 10^9$
电容(1 MHz) pF Capacitance (1 MHz) pF	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3
工作温度 (°C) Operation and storage temperature(°C)	-40... +125	-40... +125	-40... +125	-40... +125	-40... +125	-40... +125	-40... +125	-40... +125	-40... +125
击穿时间(ns) Breakdown time(ns)	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50	≤ 50

Fig1:
测试电路

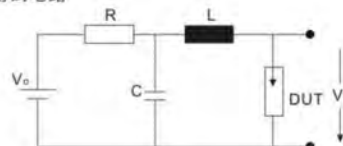
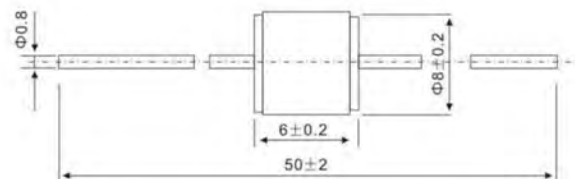


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: On this circuit diagram, first test 10000 times with 10 records, then try 90000 times with 10 records (deviation between the lowest discharge voltage and the highest discharge voltage).



ZM86 2R90L开关放电管/switching spark gap



Fig1:
测试电路

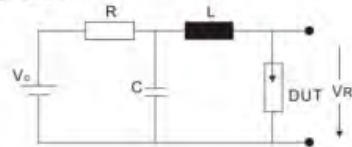
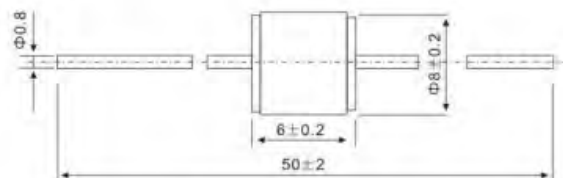


Fig2:



注:在此线路上,试品试1万次,分10次测试记录;再试9万次,分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimentingit 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	90	V
直流击穿电压偏差 Voltage deviation	±20%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value ,after 24 hours in darkness	≤115	V
其后的点火电压 Following ignition values	72-105	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤125	V
其后的点火电压 Following ignition values	68-115	V
开关点火次数 Switching operations	400000	次(ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V_0	230	V
线路上的电阻 Loading resistance R	15	K Ω
线路上的电容 Discharge capacitance C	2.2	μ F
线路上的电感 Inductance L	10	μ H
峰值放电电流 Discharge peak current	~300	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	25	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	$\geq 10^9$	Ω
电容(1MHz) Capacitance at 1MHz	≤ 1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	70	Hz
击穿时间 Breakdown time	≤ 50	ns
重量 Weight	~1.5	g



ZM86 2R230L开关放电管/switching spark gap



Fig1:
测试电路

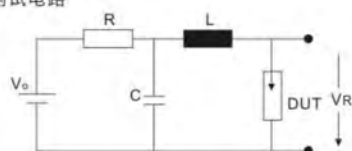
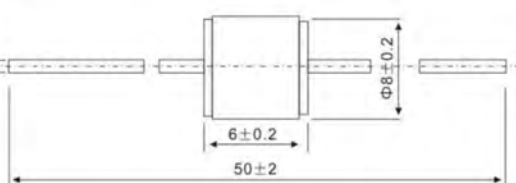


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimenting it 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	230	V
直流击穿电压偏差 Voltage deviation	±15%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value ,after 24 hours in darkness	≤255	V
其后的点火电压 Following ignition values	195-245	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤275	V
其后的点火电压 Following ignition values	195-250	V
开关点火次数 Switching operations	200000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V ₀	230	V
线路上的电阻 Loading resistance R	15	KΩ
线路上的电容 Discharge capacitance C	2.2	μF
线路上的电感 Inductance L	10	μH
峰值放电电流 Discharge peak current	~300	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	35	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100V _{DC}	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	<1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	30	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R350L-开关放电管/switching spark gap



Fig1:
测试电路

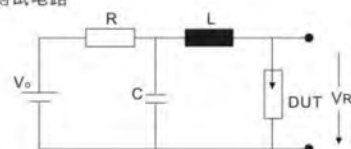
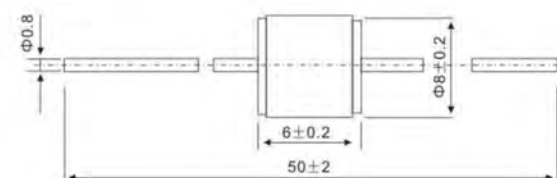


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimenting it 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	320	V
直流击穿电压偏差 Voltage deviation	±12%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value ,after 24 hours in darkness	≤345	V
其后的点火电压 Following ignition values	275-325	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤375	V
其后的点火电压 Following ignition values	275-335	V
开关点火次数 Switching operations	400000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	400	V
线路上的电阻 Loading resistance R	10	KΩ
线路上的电容 Discharge capacitance C	680	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~500	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	40	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	<1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	150	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R350L开关放电管/switching spark gap



Fig1:
测试电路

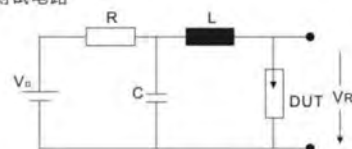
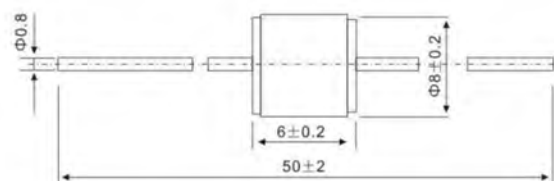


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimentingit 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	350	V
直流击穿电压偏差 Voltage deviation	±10%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value after 24 hours in darkness	≤380	V
其后的点火电压 Following ignition values	305-355	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤410	V
其后的点火电压 Following ignition values	305-365	V
开关点火次数 Switching operations	400000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	450	V
线路上的电阻 Loading resistance R	10	KΩ
线路上的电容 Discharge capacitance C	680	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~500	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	40	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	≤1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	150	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R400L开关放电管/switching spark gap



Fig1:
测试电路

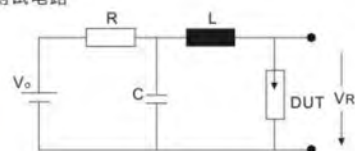
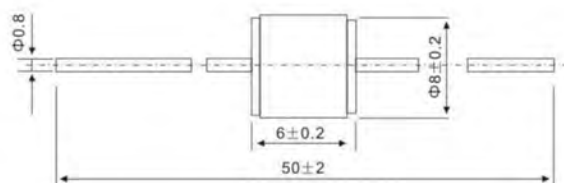


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimenting it 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	400	V
直流击穿电压偏差 Voltage deviation	±10%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value after 24 hours in darkness	≤440	V
其后的点火电压 Following ignition values	355-420	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤470	V
其后的点火电压 Following ignition values	355-430	V
开关点火次数 Switching operations	400000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	450	V
线路上的电阻 Loading resistance R	10	KΩ
线路上的电容 Discharge capacitance C	680	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~500	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	45	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	<1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	130	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R450L开关放电管/switching spark gap



Fig1:
测试电路

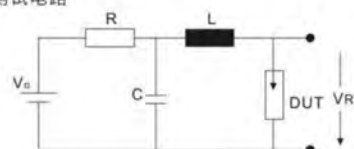
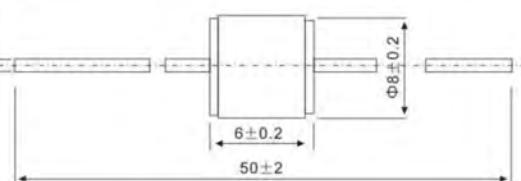


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimenting it 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	450	V
直流击穿电压偏差 Voltage deviation	±10%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First Ignition value ,after 24 hours in darkness	≤495	V
其后的点火电压 Following ignition values	400-470	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤530	V
其后的点火电压 Following ignition values	400-480	V
开关点火次数 Switching operations	300000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage Vo	500	V
线路上的电阻 Loading resistance R	10	KΩ
线路上的电容 Discharge capacitance C	680	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~500	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	50	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	≥10 ⁸	Ω
电容(1MHz) Capacitance at 1MHz	<1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	120	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R600L开关放电管/switching spark gap



Fig1:
测试电路

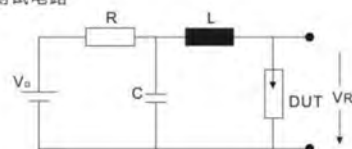
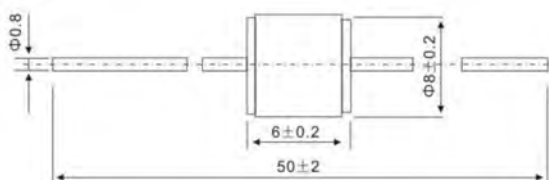


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimentingit 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	600	V
直流击穿电压偏差 Voltage deviation	±10%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value, after 24 hours in darkness	≤670	V
其后的点火电压 Following ignition values	520-640	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	≤710	V
其后的点火电压 Following ignition values	520-650	V
开关点火次数 Switching operations	300000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	900	V
线路上的电阻 Loading resistance R	68	KΩ
线路上的电容 Discharge capacitance C	100	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	60	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	≤1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	160	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R800L-开关放电管/switching spark gap



Fig1:
测试电路

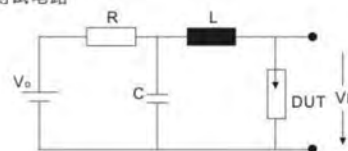
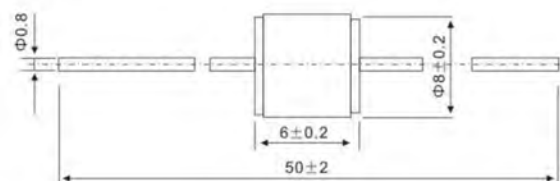


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimentingit 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	715	V
直流击穿电压偏差 Voltage deviation	±10%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First Ignition value .after 24 hours in darkness	≤820	V
其后的点火电压 Following ignition values	640-770	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first Ignition value after 24 hours in darkness	≤870	V
其后的点火电压 Following ignition values	640-780	V
开关点火次数 Switching operations	300000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	900	V
线路上的电阻 Loading resistance R	68	KΩ
线路上的电容 Discharge capacitance C	100	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	70	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Vdc	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	<1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	100	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g



ZM86 2R800L开关放电管/switching spark gap



Fig1:
测试电路

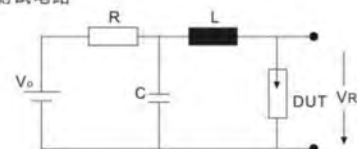
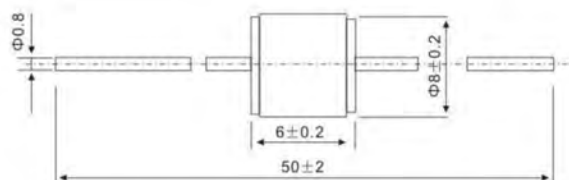


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试9万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times during this period. Then experimenting it 90000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	800	V
直流击穿电压偏差 Voltage deviation	±10%	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value ,after 24 hours in darkness	<870	V
其后的点火电压 Following ignition values	675-820	V
使用寿命 Electrical life		
20万次后黑暗中放置24小时，第一次点火电压 After 200000 ignitions, first ignition value after 24 hours in darkness	<930	V
其后的点火电压 Following ignition values	675-840	V
开关点火次数 Switching operations	300000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V ₀	1000	V
线路上的电阻 Loading resistance R	68	KΩ
线路上的电容 Discharge capacitance C	100	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
即时10万次后直流击穿电压偏差 注 Deviation of VS at 100000 ignitions(Note)	70	V
通用技术数据 General technical data		
绝缘电阻 Insulation resistance at 100Voc	≥10 ⁹	Ω
电容(1MHz) Capacitance at 1MHz	<1.3	pF
工作温度 Operation and storage temperature	-40...+125	℃
开关频率 Switching frequency	100	Hz
击穿时间 Breakdown time	≤50	ns
重量 Weight	~1.5	g

A photograph of a small, cylindrical electronic component, likely a resistor, mounted on a thin wire. The component is white with red text printed on it. The text reads "ZM-88" on the top line and "2R1000L" on the bottom line. The component is positioned diagonally against a dark blue background.

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times duringthis period. Then experimenting it 40000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

标称直流击穿电压 Nominal DC spark-over voltage	1000	V
即时5万次后直流击穿电压偏差 注 Deviation of VS at 50000 ignitions(Note)	100	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value ,after 24 hours in darkness	≤1280	V
其后的点火电压 Following ignition values	950-1180	V
使用寿命 Electrical life		
5万次后黑暗中放置24小时，第一次点火电压 After 50000 ignitions, first ignition value after 24 hours in darkness	≤1360	V
其后的点火电压 Following ignition values	930-1200	V
寿命期间的点火时间 Ignition time during life	≤60	ms
开关点火次数 Switching operations		
在-40℃下的点火次数 at-40℃	100000	次(Ignitions)
在+25℃及+125℃下的点火次数 at+25℃, +125℃	200000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage Vo	1500	V
线路上的电阻 Loading resistance R	160	KΩ
线路上的电容 Discharge capacitance C	68	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
通用技术数据 General technical data		
在100V时的绝缘电阻 Insulation resistance at 100V	≥10 ¹⁰	Ω
在中上击穿电压范围之内的提前点火值 Early ignition value between the above breakdown voltage range	≤2	%
工作温度 Operation and storage temperature	-40 ~+125	℃
开关频率 Switching frequency	110	Hz
击穿时间 Breakdown time	≤50	ns
最大负载电流 Maximum loading current	<20	mA
重量 Weight	~2	g



ZM88 2R1200L开关放电管/switching spark gap



Fig1:
测试电路

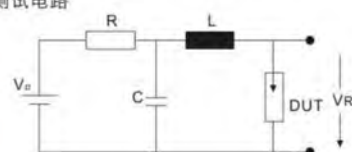
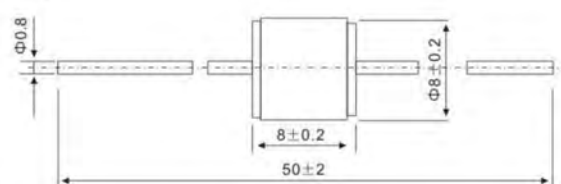


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试4万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times duringthis period. Then experimenting it 40000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	1200	V
即时5万次后直流击穿电压偏差 注 Deviation of VS at 50000 ignitions(Note)	130	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First Ignition value ,after 24 hours in darkness	≤1400	V
其后的点火电压 Following ignition values	1060-1310	V
使用寿命 Electrical life		
5万次后黑暗中放置24小时，第一次点火电压 After 50000 ignitions, first ignition value after 24 hours in darkness	1510	V
其后的点火电压 Following ignition values	1030-1350	V
寿命期间的点火时间 Ignition time during life	≤60	ms
开关点火次数 Switching operations		
在-40℃下的点火次数 at -40℃	150000	次(Ignitions)
在+25℃及+125℃下的点火次数 at +25℃, +125℃	250000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	1500	V
线路上的电阻 Loading resistance R	160	KΩ
线路上的电容 Discharge capacitance C	68	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
通用技术数据 General technical data		
在100V时的绝缘电阻 Insulation resistance at 100V	≥10 ¹⁰	Ω
在中上击穿电压范围之内的提前点火值 Early Ignition value between the above breakdown voltage range	≤2	%
工作温度 Operation and storage temperature	-40 ~ +125	℃
开关频率 Switching frequency	110	Hz
击穿时间 Breakdown time	≤50	ns
最大负载电流 Maximum loading current	<20	mA
重量 Weight	~2	g



ZM88 2R1400L开关放电管/switching spark gap



Fig1:
测试电路

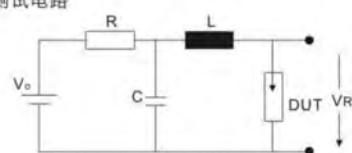
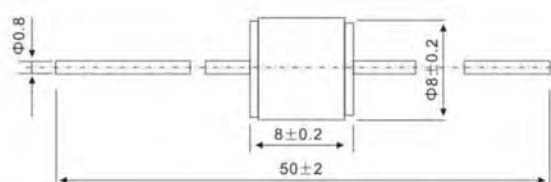


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试4万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times duringthis period. Then experimenting it 40000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	1400	V
即时5万次后直流击穿电压偏差 注 Deviation of VS at 50000 ignitions(Note)	160	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value ,after 24 hours in darkness	≤1630	V
其后的点火电压 Following ignition values	1230-1540	V
使用寿命 Electrical life		
5万次后黑暗中放置24小时，第一次点火电压 After 50000 ignitions, first ignition value after 24 hours in darkness	≤1750	V
其后的点火电压 Following ignition values	1200-1580	V
寿命期间的点火时间 Ignition time during life	≤60	ms
开关点火次数 Switching operations		
在-40℃下的点火次数 at-40℃	150000	次(Ignitions)
在+25℃及+125℃下的点火次数 at+25℃, +125℃	300000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	1600	V
线路上的电阻 Loading resistance R	160	KΩ
线路上的电容 Discharge capacitance C	68	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
通用技术数据 General technical data		
在100V时的绝缘电阻 Insulation resistance at 100V	≥10 ¹⁰	Ω
在中上击穿电压范围之内的提前点火值 Early ignition value between the above breakdown voltage range	≤2	%
工作温度 Operation and storage temperature	-40 ~+125	℃
开关频率 Switching frequency	110	Hz
击穿时间 Breakdown time	≤50	ns
最大负载电流 Maximum loading current	<20	mA
重量 Weight	~2	g



ZM88 2R1600L开关放电管/switching spark gap



Fig1:
测试电路

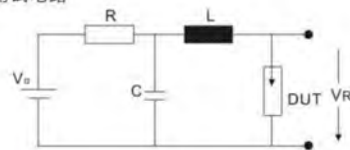
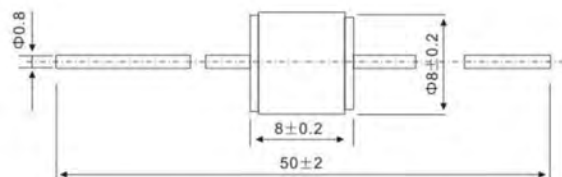


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试4万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times duringthis period. Then experimenting it 40000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	1600	V
即时5万次后直流击穿电压偏差 注 Deviation of VS at 50000 ignitions(Note)	180	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value .after 24 hours in darkness	≤1900	V
其后的点火电压 Following ignition values	1390-1770	V
使用寿命 Electrical life		
5万次后黑暗中放置24小时，第一次点火电压 After 50000 ignitions, first ignition value after 24 hours in darkness	≤2000	V
其后的点火电压 Following ignition values	1350-1820	V
寿命期间的点火时间 Ignition time during life	≤60	ms
开关点火次数 Switching operations		
在-40℃下的点火次数 at-40℃	200000	次(Ignitions)
在+25℃及+125℃下的点火次数 at+25℃, +125℃	400000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	1800	V
线路上的电阻 Loading resistance R	160	KΩ
线路上的电容 Discharge capacitance C	68	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
通用技术数据 General technical data		
在100V时的绝缘电阻 Insulation resistance at 100V	≥10 ⁹	Ω
在中上击穿电压范围之内的提前点火值 Early ignition value between the above breakdown voltage range	≤2	%
工作温度 Operation and storage temperature	-40 ~ +125	℃
开关频率 Switching frequency	110	Hz
击穿时间 Breakdown time	≤50	ns
最大负载电流 Maximum loading current	<20	mA
重量 Weight	~2	g



ZM88 2R1800L开关放电管/switching spark gap



Fig1:
测试电路

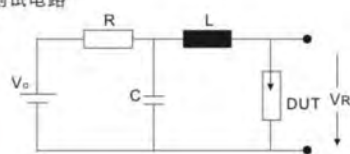
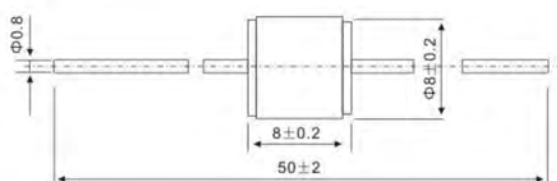


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试4万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit, experimenting it 10000 times, record DC spark-over voltage 10 times during this period. Then experimenting it 40000 times, record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	1800	V
即时5万次后直流击穿电压偏差 注 Deviation of VS at 50000 ignitions(Note)	200	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value after 24 hours in darkness	≤2100	V
其后的点火电压 Following ignition values	1550-2000	V
使用寿命 Electrical life		
5万次后黑暗中放置24小时，第一次点火电压 After 50000 ignitions, first ignition value after 24 hours in darkness	≤2200	V
其后的点火电压 Following ignition values	1500-2050	V
寿命期间的点火时间 Ignition time during life	≤60	ms
开关点火次数 Switching operations		
在-40℃下的点火次数 at -40℃	200000	次(Ignitions)
在+25℃及+125℃下的点火次数 at +25℃, +125℃	400000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	2000	V
线路上的电阻 Loading resistance R	180	KΩ
线路上的电容 Discharge capacitance C	68	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
通用技术数据 General technical data		
在100V时的绝缘电阻 Insulation resistance at 100V	≥10 ¹⁰	Ω
在中上击穿电压范围之内的提前点火值 Early ignition value between the above breakdown voltage range	≤2	%
工作温度 Operation and storage temperature	-40 ~ +125	℃
开关频率 Switching frequency	110	Hz
击穿时间 Breakdown time	≤50	ns
最大负载电流 Maximum loading current	<20	mA
重量 Weight	~2	g



ZM88 2R2000L开关放电管/switching spark gap



Fig1:
测试电路

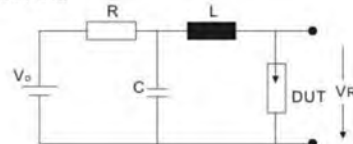
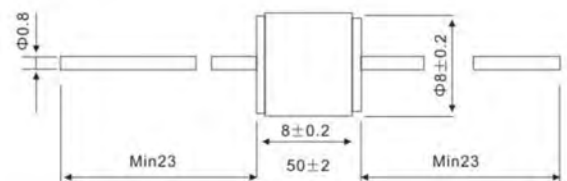


Fig2:



注：在此线路上，试品试1万次，分10次测试记录；再试4万次，分10次测试记录(最低放电电压与最高放电电压之偏差)。

Note: The Switching spark gap is experimented in this circuit,experimenting it 10000 times,record DC spark-over voltage 10 times duringthis period. Then experimenting it 40000 times,record DC spark-over voltage 10 times during this period. (deviation between the lowest discharge voltage and the highest discharge voltage)

技术参数/Technical data

标称直流击穿电压 Nominal DC spark-over voltage	2000	V
即时5万次后直流击穿电压偏差 注 Deviation of VS at 50000 ignitions(Note)	220	V
原始值 Initial values		
黑暗中放置24小时，第一次点火电压 First ignition value after 24 hours in darkness	≤2250	V
其后的点火电压 Following ignition values	1650-2100	V
使用寿命 Electrical life		
5万次后黑暗中放置24小时，第一次点火电压 After 50000 ignitions, first ignition value after 24 hours in darkness	≤2300	V
其后的点火电压 Following ignition values	1600-2150	V
寿命期间的点火时间 Ignition time during life	≤60	ms
开关点火次数 Switching operations		
在-40℃下的点火次数 at-40℃	200000	次(Ignitions)
在+25℃及+125℃下的点火次数 at+25℃,+125℃	400000	次(Ignitions)
线路图参数 Test circuit parameters		
仪器试验电压 Open circuit voltage V0	2000	V
线路上的电阻 Loading resistance R	180	KΩ
线路上的电容 Discharge capacitance C	68	nF
线路上的电感 Inductance L	0.5	μH
峰值放电电流 Discharge peak current	~400	A
通用技术参数 General technical data		
在100V时的绝缘电阻 Insulation resistance at 100V	≥10 ¹⁰	Ω
在中上击穿电压范围内之间的提前点火值 Early ignition value between the above breakdown voltage range	≤2	%
工作温度 Operation and storage temperature	-40℃~+125℃	℃
开关频率 Switching frequency	110	Hz
击穿时间 Breakdown time	≤50	ns
最大负载电流 Maximum load current	≤20	mA
重量 Weight	~2	g