

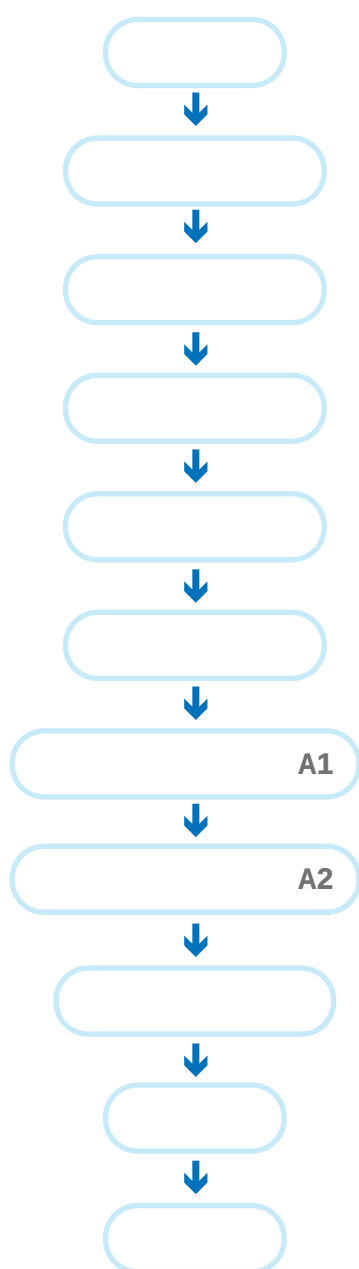






	TYPE	DESCRIPTION	RATING	APPROVALS	
Surface Mount Fuse	06F	Fast-Blow Type	200mA-5A, 32V / 63V	UR, cUR	P07
	06T	Slow-Blow Type	1A-5A, 32V / 63V	UR, cUR	P08
	12F	Fast-Blow Type	100mA-7A, 24V / 32V / 63V	UR, cUR	P09
	12T	Slow-Blow Type	500mA-7A, 24V / 32V / 63V	UR, cUR	P10
	25F	Fast-Blow Type	200mA-10A, 125V / 250V; 12-20A,65V / 125V	UR, cUR, TUV, CQC	P11
	25T	Slow-Blow Type	200mA-5A, 125V / 250V	UR, cUR	P12
	3NF	Fast-Blow Type	5A-60A, 32V / 75V/ 125V/ 250V	cURus	P13
	3NT	Slow-Blow Type	200mA-10A, 125V / 250V	cURus	P14
	4NT	Slow-Blow Type	500mA-5A, 125V / 250V	UR, cUR	P15
	10NF	Fast-Blow Type	30A-100A, 32V / 75V/ 100V/ 115V/ 250V	cURus	P16
Φ8x8.5mm Radial Lead Microfuse	5RT	Time-lag Type	100mA-6.3A, 125V / 250V / 300V	CCC, cURus, VDE, SEMKO, BSI, PSE, KC	P17
	5EF	Quick-acting Type	315mA-6.3A, 250V	CCC, cURus, VDE, SEMKO, PSE	P18
	5ET	Time-lag Type	100mA-10A, 125V / 250V / 300V/ 400V	CCC, cURus, VDE, SEMKO, BSI, PSE, KC,TUV	P19
Φ2.4x7mm Microfuse	20N	Very Quick-acting Type	100mA-10A, 125V / 250V;1 2-15A, 72V; 20A 60V	CCC, UL, cUL, UR, cUR, CSA, PSE	P20
	20S	Medium Slow-Blow Type	200mA-10A, 125V / 250V	CCC, UL, cUL, CSA, PSE	P21
	20T	Slow-Blow Type	375mA-7A, 125V / 250V	CCC, UR, cUR, CSA, PSE	P22
Φ3.6x10mm Microfuse	25S	Slow-Blow Type	1A-2A, 125V / 250V	CCC, VDE, UR, cUR, PSE	P23
	30N	Fast-Blow Type	200mA-15A, 125V / 250V / 350V	UL, cUL, CSA, PSE	P24
	30TS	Slow-Blow Type	200mA-15A, 125V / 250V / 350V	CCC, VDE, UL, cUL, UR, cUR, CSA, PSE	P25
	31NM, 32NM/31NM(P)	Fast-Blow Type	100mA-15A, 125V / 250V	UL, cUL, CSA	P26
	31S, 32S/31S(P)	Slow-Blow Type	100mA-15A, 125V / 250V	UL, cUL, CSA	P27
	30T	Time-lag Type	200mA-10A, 250V	CCC, VDE, cURus	P28
	35NM, 36NM/35NM(P)	Fast-Blow Type	100mA-15A, 125V / 250V	UL, cUL, CSA, PSE	P29
	3CT	Time-lag Type	1A-10A, 125V / 250V	cURus,TUV	P30
Φ4.5x15mm Glass Tube Fuse	41NM, 42NM/41NM(P)	Fast-Blow Type	300mA-15A, 125V / 250V / 300V	UR, cUR, PSE, KC	P31
Φ5.2x20mm Glass & Ceramic Tube Fuse	51NM, 52NM/51NM(P)	Fast-Blow Type	100mA-15A, 125V / 250V	UL, cUL, UR, CSA, PSE, KC	P32
	51MS, 52MS/51MS(P)	Medium Slow-Blow Type	100mA-15A, 125V / 250V	UL, cUL, UR, CSA, PSE, KC	P33
	51S, 52S/51S(P)	Slow-Blow Type	100mA-15A, 125V / 250V	UL, cUL, UR, CSA, PSE, KC	P34
	50F	Quick-acting Type	125mA-20A, 250V	CCC, CQC, SEMKO, VDE, BSI, IMQ, UR, cUR, CSA, PSE, KC	P35
	50T	Time-lag Type	100mA-20A, 250V	CCC, CQC, SEMKO, VDE, BSI, IMQ, UR, cUR, CSA, PSE, KC	P36
	50CF	Quick-acting Type	250mA-16A, 250V	CCC, CQC, SEMKO, VDE, BSI, UR, cUR, PSE, KC	P37
	50CT	Time-lag Type	200mA-25A, 250V	CCC, CQC, SEMKO, VDE, BSI, UR, cUR, PSE, KC	P38
	5HF	Quick-acting Type	250mA-20A, 300V / 420V / 500V / 600V	cURus, TUV, PSE	P39
	5HT	Time-lag Type	2A-16A, 400V / 500V / 600V	cURus, TUV	P40
	5FF	Very Fast-acting Type	500mA-16A, 250V		P41
	60NM	Normal-Blow Type	5A-50A, 75V/125V/250V	cURus	P42
Φ6.35x32mm Glass&Ceramic Tube Fuse	61NM, 62NM/61NM(P)	Fast-Blow Type	100mA-30A, 125V / 250V	UL, cUL, CSA, PSE, KC	P43
	61S, 62S/61S(P)	Slow-Blow Type	200mA-15A, 125V / 250V	UL, cUL, CSA, PSE, TUV, KC	P44
	65NM	Fast-Blow Type	300mA-30A, 125V / 250V	UL, cUL, UR, cUR, PSE, KC	P45
	65TS	Slow-Blow Type	500mA-30A, 125V / 250V	UL, cUL, UR, cUR, PSE, KC, TUV, CQC	P46
	61CT	TIME-LAG FUSE	2A-30A, 500V	UR, cUR	P47
	61T	Time-lag Type	8A-30A, 250V	CQC	P48
	6FF	Very Fast-acting Type	200mA-30A, 500V/650V/800V/1000V	UR, cUR, TUV	P49
	6HF	Fast-acting Type	12A-30A, 500V	UR, cUR, TUV	P50
Thermal Cutoff	TH Series	66-257°C	10A/15A, 250V	CCC, VDE, UR(10A)	P51
Fuse Holder, Clip&Block					P52-56

为便于用户针对所需保护的元件、电路或设备选用合适的保险丝管，特制定本指南。保险丝管的选用可依以下流程：



根据整机所需的安全认证决定保险丝管的安全认证，在此，可初步确定选用 IEC 规格或 UL 规格保险丝管。

- ▶ 设计时电路中空间的限制。
- ▶ 安装方式

额定电压应大于等于有效的电路电压。

分断能力的电流应大于电路中的最大故障电流。

整机开关时电路中是否存在启动电流，启动电流在某些电路中是正常的，这种场合应使用慢断型或中等慢断型保险丝管。

保险丝管必须切断的电流及持续时间（该条件由设计人员依具体电路的保护需求而定），参考相应型号的 I-T 曲线，取满足要求的最大额定电流作为上限值 A1。

- ▶ 通过保险丝管的稳态电流（依具体电路而定）。
 - ▶ IEC 规格及 UL 规格保险丝管的额定电流的差别，详见“稳态电流”。
 - ▶ 环境温度对保险丝管承载能力的影响，详见“环境温度”。
 - ▶ 脉冲（冲击电流，浪涌电流，启动电流及电流瞬变值）对保险丝管寿命的影响，详见“脉冲”。
 - ▶ 启动电流及持续时间与相应型号的 I-T 曲线比较。
- 综合考虑以上五个因素后，选出满足要求的最小额定电流作为下限 A2。

综合考虑以上因素后，选出最合适的型号及额定电流。

- ▶ 当 $A1 \geq A2$ 时，则可选用 A2 到 A1 区间内的任何一规格的保险丝管。
- ▶ 当 $A1 < A2$ 时，则建议选用其它型号的保险丝管。

样品应在实际电路中试运行。

在实际应用中和实验室之间有不同的条件，如：

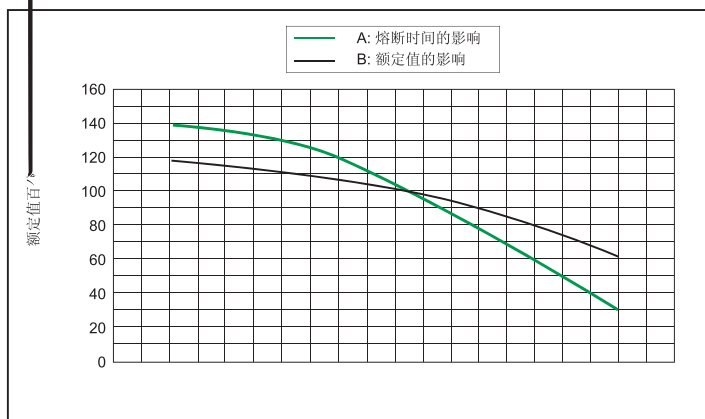
- 有时使用保险丝盒；
- 电路中的电线横截面积；
- 保险丝管夹的接触电阻等。

考虑到以上因素，故在 25℃条件下所选用的保险丝管应满足如下条件才可使得保险丝管持续可靠地工作：

IEC 规格：保险丝管的额定电流 $I_n = \text{稳态电流} / 0.9$

UL 规格：保险丝管的额定电流 $I_n = \text{稳态电流} / 0.75$

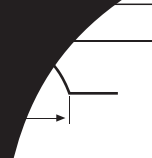
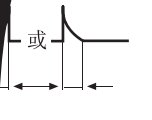
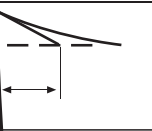
保险丝管的电流承载能力测试是在环境温度 25℃条件下进行的，而保险丝管的电流承载能力是会受环境温度影响的。环境温度越高，保险丝管的寿命越短，承载能力就越低。所以选用保险丝管时应考虑保险丝管周边的环境温度，环境温度对各类保险丝管承载能力的影响如下图所示：



脉冲产生热循环，从而产生机械疲劳影响保险丝管寿命。设计时应使保险丝管承受的脉冲总热能不超过保险丝管标称熔化热能 I^2T 。保险丝管寿命（可承受的脉冲循环次数）与 U （脉冲 I^2T 值与保险丝管 I^2T 值的比值）成反比，可参照表 1。本目录提供的各种规格的保险丝管熔化热能 I^2T 可供参考，表 2 提供各种典型脉冲波形的

表 1

注：脉冲间隔时间必须足够长才可使前一脉冲产生的热量

	
或 	
	

所选定的样品必须在实际的被保护电路中进行测试，以确定所选定的保险丝管。此验证应包括正常条件及故障条件下的测试，以确保所选择的保险丝管在被保护电路中能正常运行。

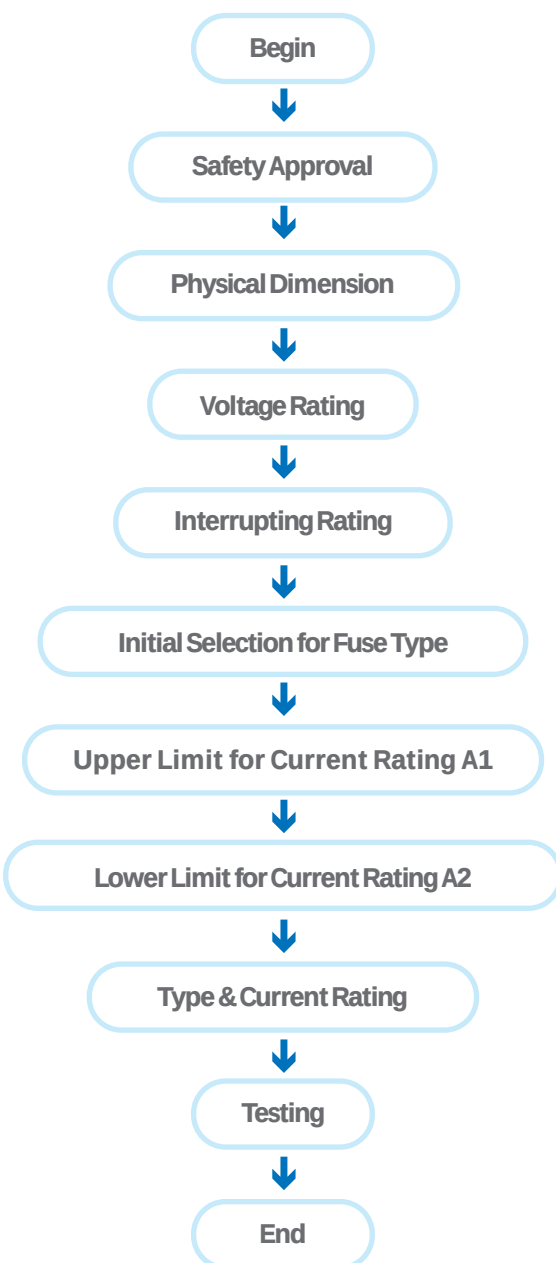
如您在电路保护方面遇见各种疑问，欢迎与好利来（厦门）电路保护科技有限公司技术人员联系，好利来（厦门）电路保护科技有限公司将提供恰当建议协助您共同解决。

USER GUIDE

FUSE SELECTION

The purpose of this guide is for users to properly select a fuse which provides protection of components, circuit or equipments. The following flow is considered for fuse selection.

FLOW CHART



FACTORS TAKEN INTO CONSIDERATION

The safety approvals required for fuse shall be determined according to the safety approvals required on the end product. It is the safety approval that determines initially the selected fuse designed to IEC standard or UL standard.

- ▶ The space limit of circuit in design.
- ▶ Mounting mode.

The voltage rating of the fuse shall be greater than, or equal to the available circuit voltage.

The interrupting rating of the fuse should exceed the Maximum Fault Current of the circuit.

Does there exist “turn-on current” in a circuit when the end product turns on or off? The “turn-on current” is normal for some circuit and requires the slow-blow fuse or medium slow-blow fuse.

The overload current and time in which a fuse must function (It may be specified on the specific protection needs of circuit by a design engineer.). Referring to the Time-Current curve, the maximum current rating which meet the requirement would be taken as the upper limit for current rating A1.

- ▶ Steady state current through a fuse (based on the specific circuit.).
- ▶ The difference of current rating for fuse designed to IEC standard and UL standard, refer to STEADY STATE CURRENT.
- ▶ Effect of ambient temperature on current-carrying capacity of fuse, refer to AMBIENT TEMPERATURE.
- ▶ Effect of pulse (including surge currents, turn-on currents, in-rush currents and transients) on life of fuse, refer to PULSE.
- ▶ “Turn-on current” and duration should be compared to Time-Current curve of relevant fuse.
- ▶ When $A1 \geq A2$, any rating can be selected from the range of A2 to A1.
- ▶ When $A1 < A2$, it is advised to select another type fuse.

The sample shall trial-operate in the actual circuit.

USER GUIDE

STEADY STATE CURRENT

There exist the different conditions between the actual appliance and test conditions, such as:

- ▶ Fuse-holder.
- ▶ Connecting cable size.
- ▶ Contacting resistance between fuse clip and fuse, etc.

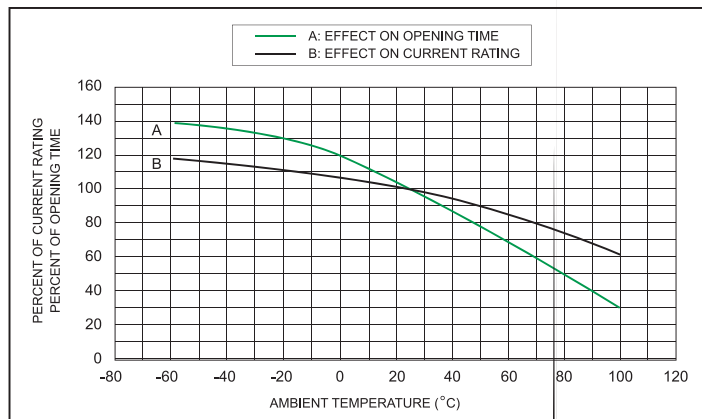
The above factors should be taken into consideration when selecting a fuse in a 25 °C ambient. To compensate for the variation, the following conditions shall be melted to ensure the fuse operating continuously and properly.

Fuse designed to IEC standard: current rating (In)=steady state current of circuit/0.9

Fuse designed to UL standard: current rating (In)=steady state current of circuit/0.75

AMBIENT TEMPERATURE

The current carrying capacity tests of a fuse are performed at 25 °C and will be effected by changes with the ambient temperature. The higher the ambient temperature is, the shorter fuse life will be and the lower the current carrying capacity will be. So the ambient temperature shall be considered for proper fuse selection. Refer to the following charts showing its effect on the current carrying capacity of all kinds of fuse.



() Effect on rating and opening time in Cln of traditional slow blow

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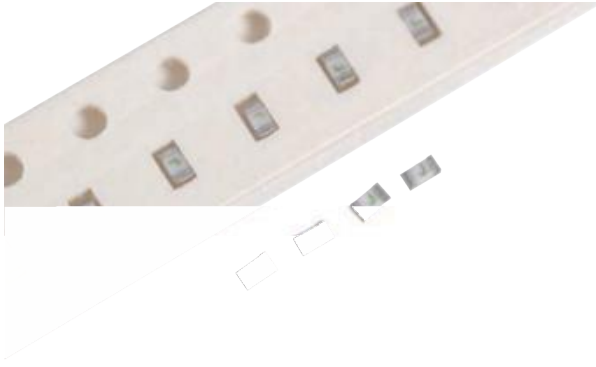
ULSE

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0603, RoHS Compliant & Pb-Free SURFACE MOUNT CHIP FUSE (FAST-BLOW)

INTERRUPTING CAPACITY /

50A 32V AC (200mA-1A) 35A 32V AC (1.2A-5A)
50A 63V DC (200mA-250mA) 50A 32V DC (300mA-1A)
35A 32V DC (1.2A-5A)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证				REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值
		UR		cUR		
		L1	L2	L1	L2	
06F-0200L	200mA	●	●	●	●	0.00056
06F-0250L	250mA	●	●	●	●	0.00078
06F-0315L	315mA	●		●		0.00083
06F-0375L	375mA	●		●		0.00115
06F-0400L	400mA	●		●		0.00135
06F-0500L	500mA	●		●		0.0069
06F-0630L	630mA	●		●		0.0072
06F-0750L	750mA	●		●		0.017
06F-0800L	800mA	●		●		0.019
06F-010L	1A	●		●		0.041
06F-012L	1.2A	●		●		0.043
06F-013L	1.25A	●		●		0.045
06F-015L	1.5A	●		●		0.078
06F-016L	1.6A	●		●		0.076
06F-020L	2A	●		●		0.130
06F-025L	2.5A	●		●		0.180
06F-030L	3.0A	●		●		0.280
06F-032L	3.15A	●		●		0.32
06F-035L	3.5A	●		●		0.361
06F-040L	4A	●		●		0.408
06F-050L	5A	●		●		1.100

● DENOTES FOR APPROVED

L1 DENOTES FOR 32V L1 32V
L2 DENOTES FOR 63V L2 63V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间
100%	4 hours Min. 最快 4 小时
250%	10 seconds Max. 最慢 10 秒 (200mA-3A)
350%	1 second Max. 最慢 1 秒 (3.15A-5A)

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

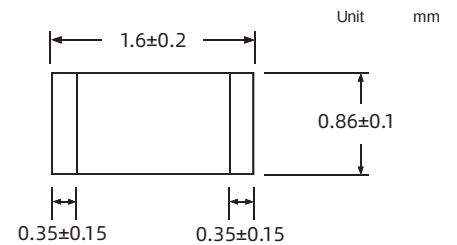
Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

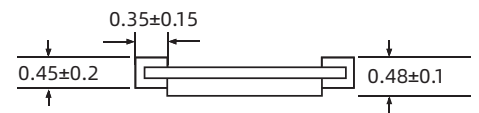
Solderability/ 235 ± 5 , 3.5s±0.5/-0s

Dimensions/

TOP VIEW/



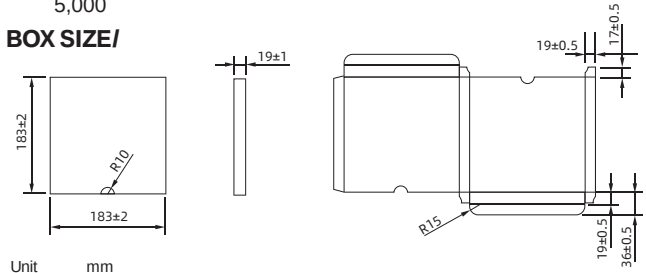
SIDE VIEW/



PACKING/

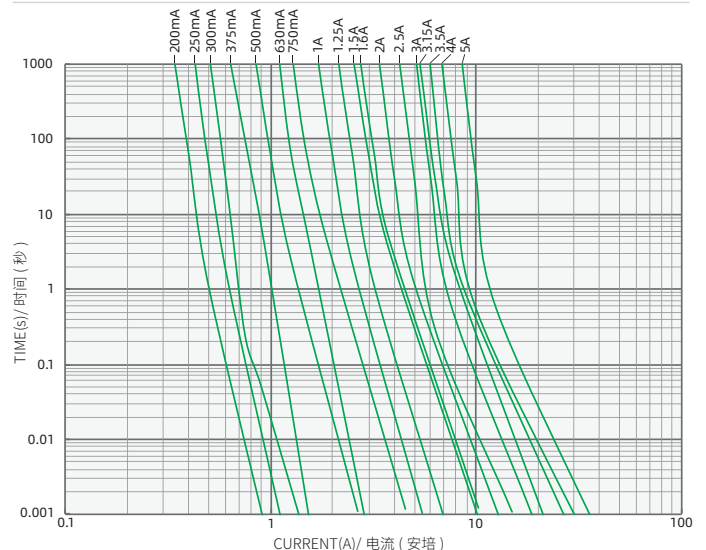
5,000 PIECES TAPED AND REELED IN ONE BOX
5,000

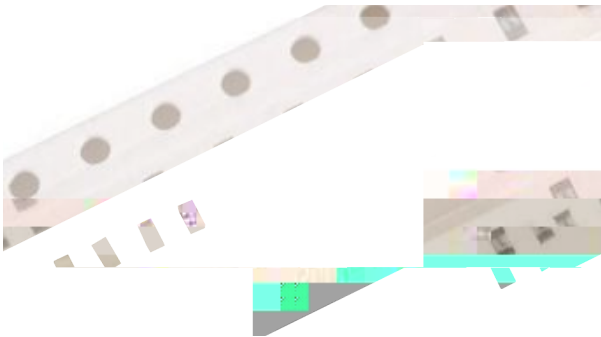
BOX SIZE/



06F AVERAGE I-T CHARACTERISTICS CURVE (FOR REFERENCE ONLY)

06F I-T ()





0603, RoHS Compliant & Pb-Free
SURFACE MOUNT CHIP FUSE (SLOW-BLOW)

TECHNICAL PARAMETERS/ :

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证				REFERENCE (A²·Sec.) (RoHS) I²T 参考值
		UR		cUR		
		L1	L2	L1	L2	
06T-010L	1A	●		●		0.061
06T-012L	1.2A	●		●		0.100
06T-013L	1.25A	●		●		0.106
06T-015L	1.5A	●		●		0.145
06T-016L	1.6A	●		●		0.156
06T-020L	2A	●		●		0.265
06T-025L	2.5A	●		●		0.453
06T-030L	3A	●		●		0.952
06T-032L	3.15A	●		●		0.990
06T-035L	3.5A	●		●		1.16
06T-040L	4A	●		●		1.38
06T-050L	5A	●		●		2.53

● DENOTES FOR APPROVED

L1 DENOTES FOR 32V

L2 DENOTES FOR 63V

●

L1 32V

L2 63V

ELECTRICAL CHARACTERISTICS/ :

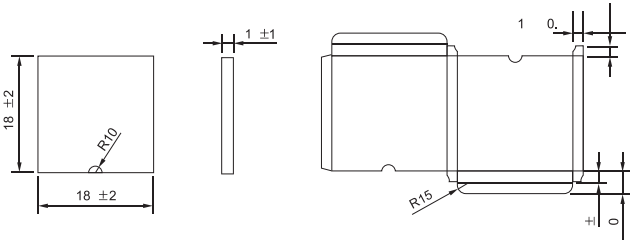
% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
200%	1 second Min. 120 seconds Max.	最快 1 秒 最慢 120 秒
300%	0.05 seconds Min. 3 seconds Max.	最快 0.05 秒 最慢 3 秒
800%	0.0005 seconds Min. 0.05 seconds Max.	最快 0.0005 秒 最慢 0.05 秒

PACKING/

5,000 PIECES TAPED AND REELED IN ONE BOX

5,000

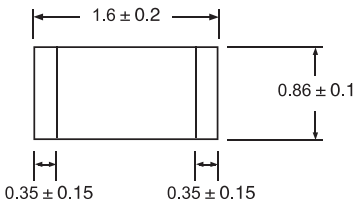
BOX SIZE/



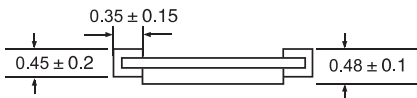
Dimensions/ :

Unit mm

TOP VIEW/ :



SIDE VIEW/ :



Standards/

UL 248-1, UL 248-14

Operating Temperature/

-55 ~125

Storing Temperature/

-55 ~85

Resistance to soldering heat/

260 10s Max.

Solderability/

235 ± 5 , 3.5s+0.5/-0s

06T AVERAGE I-T CHARACTERISTICS CURVE

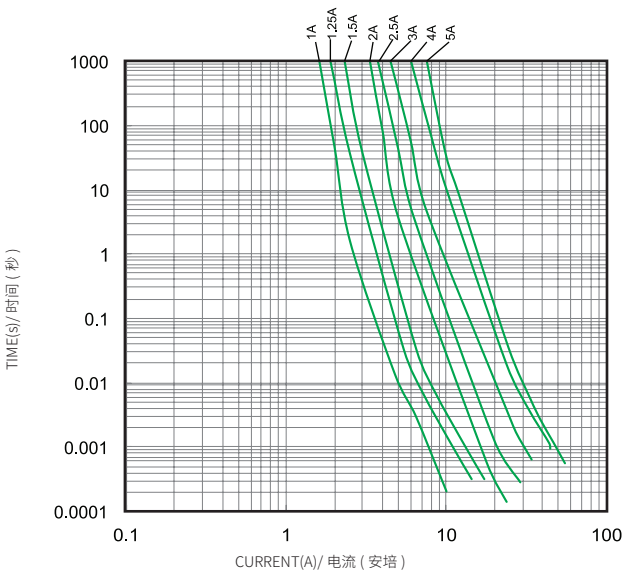
(FOR REFERENCE ONLY)

06T

I-T

(

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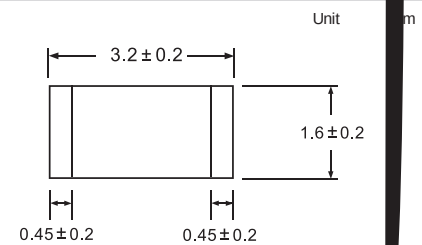
1206, RoHS Compliant & Pb-Free SURFACE MOUNT CHIP FUSE (FAST-BLOW)

INTERRUPTING CAPACITY /

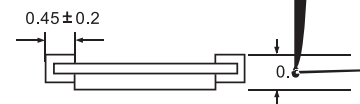
50A 32V AC (100mA-375mA) 50A 63V AC (400mA-3A)
35A 24V AC (3.15A-7A) 50A 63V DC (100mA-3A)
50A 32V DC (3.15A-7A)

Dimensions/

TOP VIEW/



SIDE VIEW/



PACKING/

5,000 PIECES TAPED AND REELED IN ONE BOX

5,000

BOX SIZE/

12F AVERAGE I-T CHARACTERISTICS CURVE (FOR REFERENCE ONLY)

12F I-T ()

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)

TECHNICAL PARAMETERS/

PART NO. 目 录 号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证						REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UR			cUR			
		L1	L2	L3	L1	L2	L3	
12F-010L	100mA		●	●		●	●	0.00034
12F-025L	125mA		●	●		●	●	0.00040
12F-050L	150mA		●	●		●	●	0.00084
12F-020L	200mA		●	●		●	●	0.0010
12F-0250L	250mA		●	●		●	●	0.0014
12F-0315L	315mA		●	●		●	●	0.0017
12F-0375L	375mA		●	●		●	●	0.0026
12F-0400L	400mA			●			●	0.0029
12F-0500L	500mA			●			●	0.0049
12F-0630L	630mA			●			●	0.012
12F-0750L	750mA			●			●	0.015
12F-0800L	800mA			●			●	0.025
12F-010L	1A			●			●	0.042
12F-012L	1.2A			●			●	0.055
12F-013L	1.25A			●			●	0.055
12F-015L	1.5A			●			●	0.099
12F-016L	1.6A			●			●	0.108
12F-020L	2A			●			●	0.114
12F-025L	2.5A			●			●	0.198
12F-030L	3A			●			●	0.276
12F-032L	3.15A	●	●		●	●		0.631
12F-035L	3.5A	●	●		●	●		0.695
12F-040L	4A	●	●		●	●		0.784
12F-050L	5A	●	●		●	●		1.225
12F-063L	6.3A	●	●		●	●		1.652
12F-070L	7A	●	●		●	●		1.890

● DENOTES FOR APPROVED

L1 DENOTES FOR 24V L2 24V
L2 DENOTES FOR 32V L2 32V
L3 DENOTES FOR 63V L3 63V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间
100%	4 hours Min. 最快 4 小时
250%	10 seconds Max. 最慢 10 秒 (100mA-5A)
100%	1 second Max. 最慢 1 秒 (6A-7A)

UL 248-1, UL 248-14

Temperature/ -55 ~125

Temperature/ -55 ~85

Heat/ 260 10s Max.

5, 3.5s+0.5/-0s



1206, RoHS Compliant & Pb-Free SURFACE MOUNT CHIP FUSE (SLOW-BLOW)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证						REFERENCE (A²·Sec.) (RoHS) I²T 参考值
		UR			cUR			
		L1	L2	L3	L1	L2	L3	
12T-0500L	500mA			●			●	0.0182
12T-0630L	630mA			●			●	0.0418
12T-0750L	750mA			●			●	0.0684
12T-0800L	800mA			●			●	0.0699
12T-010L	1A			●			●	0.110
12T-013L	1.25A			●			●	0.125
12T-015L	1.5A			●			●	0.170
12T-016L	1.6A			●			●	0.190
12T-020L	2A			●			●	0.250
12T-025L	2.5A			●			●	0.900
12T-030L	3A			●			●	1.300
12T-032L	3.15A	●	●		●	●		1.401
12T-035L	3.5A	●	●		●	●		1.714
12T-040L	4A	●	●		●	●		2.025
12T-050L	5A	●	●		●	●		4.225
12T-063L	6.3A	●	●		●	●		5.404
12T-070L	7A	●	●		●	●		6.305

● DENOTES FOR APPROVED

L1 DENOTES FOR 24V L1 24V

L2 DENOTES FOR 32V L2 32V

L3 DENOTES FOR 63V L3 63V

ELECTRICAL CHARACTERISTICS/

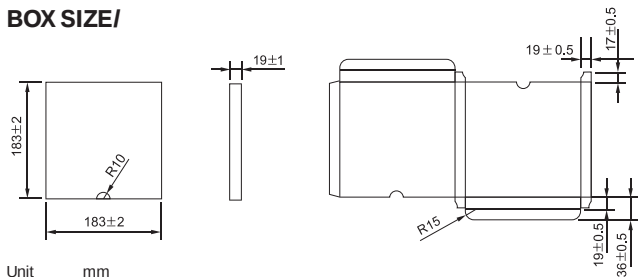
% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间
100%	4 hours Min. 最快 4 小时
200%	1-120 seconds 1-120 秒
300%	0.05-3.00 seconds 0.05-3.00 秒
800%	0.0015-0.05 seconds 0.0015-0.05 秒

PACKING/

5,000 PIECES TAPED AND REELED IN ONE BOX

5,000

BOX SIZE/

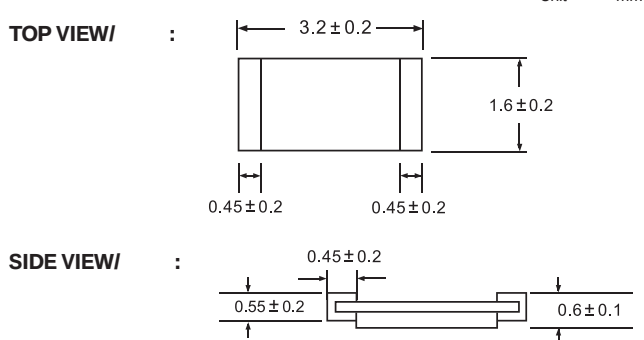


INTERRUPTING CAPACITY /

50A 63V AC (500mA-3A) 35A 24V AC (3.15A-7A)

50A 63V DC (500mA-3A) 50A 32V DC (3.15A-7A)

Dimensions/



Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

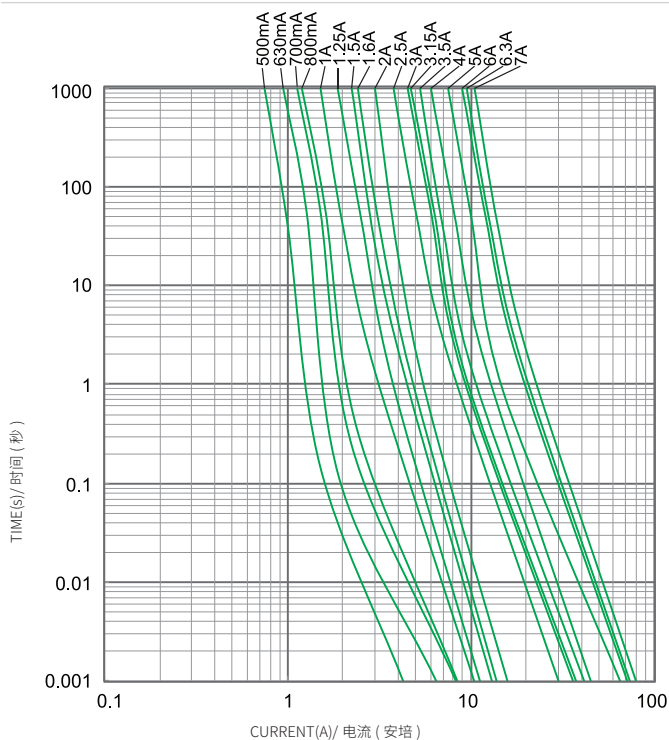
Resistance to soldering heat/ 260 10s Max.

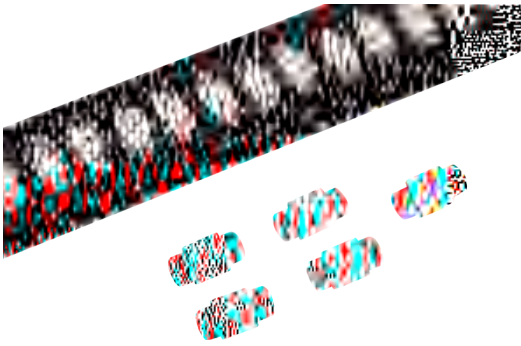
Solderability/ 235 ± 5 , 3.5s+0.5/-0s

12T AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

12T I-T ()





2410, RoHS Compliant & Pb-Free SMD NANO FUSE (FAST-BLOW)

INTERRUPTING CAPACITY /

50A at 250V AC (200mA-10A) 50A at 125V AC/DC (12A-20A, 1A-5A)
100A at 125V AC/DC (200mA-10A) 100A at 65V DC (12A-20A), 100A at 250V AC(1A-5A)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证							REFERENCE (A².Sec.) (RoHS) I²T 参考值
		CQC		UR/cUR			TUV		
		H	L1	H	L1	L2	H	L1	
25F -0200H/L1	200mA			●	●				0.008
25F -0250H/L1	250mA			●	●				0.012
25F -0315H/L1	315mA			●	●				0.031
25F -0375H/L1	375mA			●	●				0.067
25F -0400H/L1	400mA			●	●				0.073
25F -0500H/L1	500mA			●	●				0.101
25F -0630H/L1	630mA			●	●				0.188
25F -0750H/L1	750mA			●	●				0.315
25F -0800H/L1	800mA			●	●				0.335
25F -010H/L1	1A	●	●	●	●		●	●	0.34
25F -012H/L1	1.2A			●	●				0.49
25F -013H/L1	1.25A	●	●	●	●		●	●	0.52
25F -015H/L1	1.5A			●	●				0.93
25F -016H/L1	1.6A	●	●	●	●		●	●	0.97
25F -020H/L1	2A	●	●	●	●		●	●	1.92
25F -025H/L1	2.5A	●	●	●	●		●	●	3.38
25F -030H/L1	3A			●	●				3.95
25F -032H/L1	3.15A	●	●	●	●		●	●	4.01
25F -035H/L1	3.5A			●	●				5.26
25F -040H/L1	4A	●	●	●	●		●	●	7.81
25F -050H/L1	5A	●	●	●	●		●	●	12.22
25F -063H/L1	6.3A			●	●				7.01
25F -070H/L1	7A			●	●				8.36
25F -080H/L1	8A			●	●				12.81
25F -100H/L1	10A			●	●				19.03
25F -120L1/L2	12A				●	●			35.62
25F -150L1/L2	15A				●	●			70.997
25F -200L1/L2	20A				●	●			102.3

• DENOTES FOR APPROVED

H DENOTES FOR 250V H 250V

L1 DENOTES FOR 125V L1 125V

L2 DENOTES FOR 65V L2 65V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min. 最快 4 小时	(200mA-20A)
125%	1 hours Min. 最快 1 小时	(1A-5A)
200%	5 seconds Max. 最慢 5 秒	(200mA-10A)
	20 seconds Max. 最慢 20 秒	(12A-20A)
1000%	0.001S-0.01S	(1A-5A)

Standards/ UL 248-1, UL 248-14

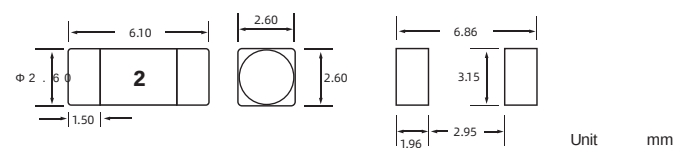
Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 240 ± 5 30s ± 5s

Solderability/ MIL-STD-202, Method 208

Dimensions/

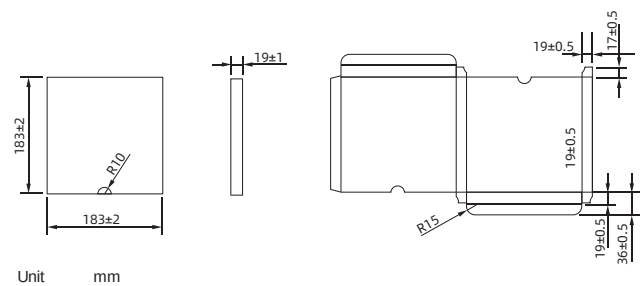


Land Pattern:

PACKING/

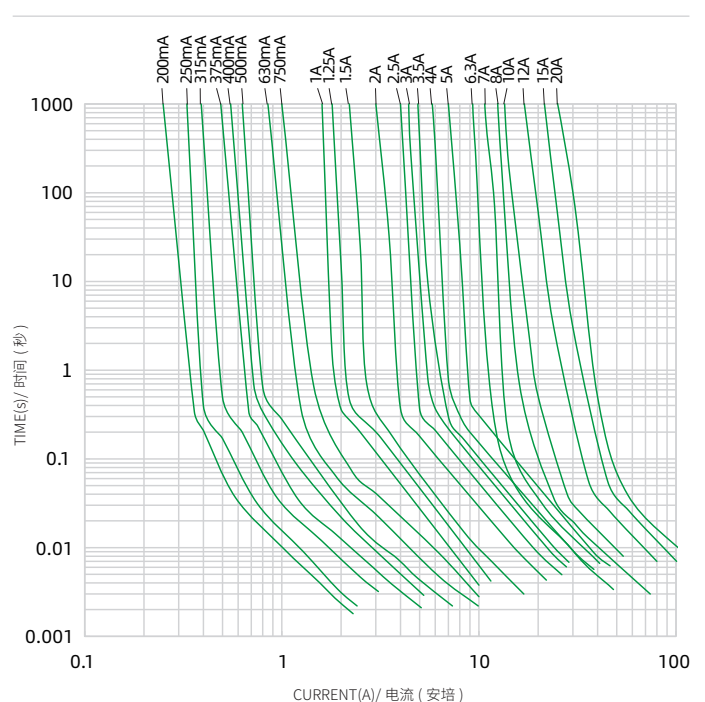
1,000 PIECES TAPED AND REELED IN ONE BOX

1,000
BOX SIZE/



25F AVERAGE I-T CHARACTERISTICS CURVE (FOR REFERENCE ONLY)

25F I-T ()





2410, RoHS Compliant & Pb-Free SMD NANO FUSE (SLOW-BLOW)

INTERRUPTING CAPACITY /

50A at 250V AC (200mA-5A)

100A at 125V AC/DC (200mA-5A)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证	REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UR/cUR	
25T-0200H/L	200mA	●	0.06
25T-0250H/L	250mA	●	0.08
25T-0315H/L	315mA	●	0.130
25T-0375H/L	375mA	●	0.186
25T-0400H/L	400mA	●	0.210
25T-0500H/L	500mA	●	0.329
25T-0630H/L	630mA	●	0.532
25T-0750H/L	750mA	●	0.845
25T-0800H/L	800mA	●	1.16
25T-010H/L	1A	●	1.88
25T-012H/L	1.2A	●	3.10
25T-013H/L	1.25A	●	3.56
25T-015H/L	1.5A	●	4.49
25T-016H/L	1.6A	●	4.98
25T-020H/L	2A	●	5.18
25T-025H/L	2.5A	●	10.66
25T-030H/L	3A	●	14.01
25T-032H/L	3.15A	●	15.04
25T-035H/L	3.5A	●	15.51
25T-040H/L	4A	●	24.22
25T-050H/L	5A	●	32.39

● DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

●

H

L

250V

125V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
200%	1-60 seconds	1-60 秒
300%	0.2-3 seconds	0.2-3 秒
800%	0.01-0.1 seconds	0.01-0.1 秒

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

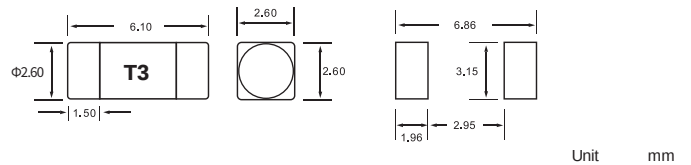
Storing Temperature/ -55 ~85

Resistance to soldering heat/ 240 ± 5 30s ± 5s

Solderability/ MIL-STD-202, Method 208

Dimensions/

Land Pattern:

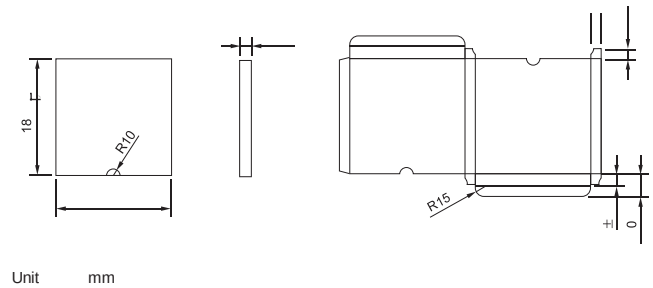


PACKING/

1,000 PIECES TAPED AND REELED IN ONE BOX

1,000

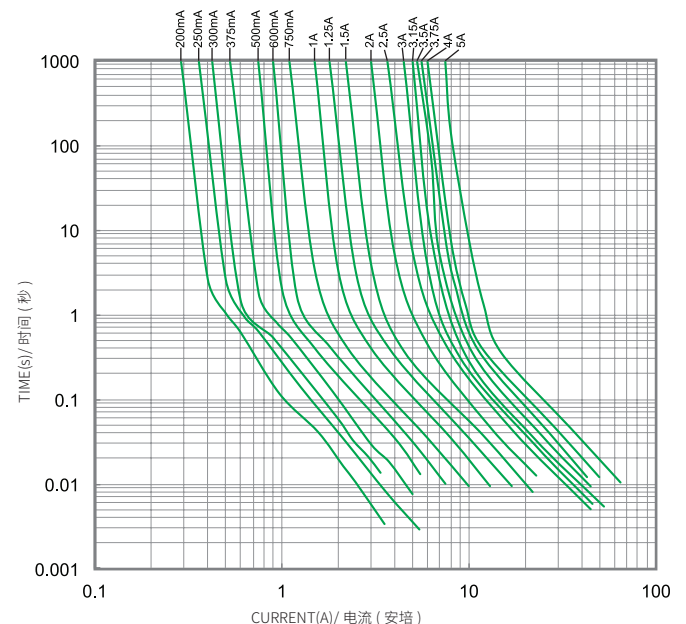
BOX SIZE/



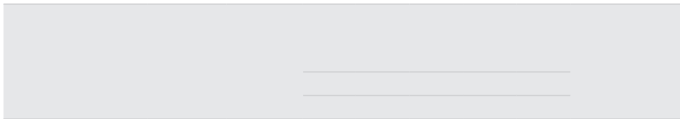
25T AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

25T I-T ()



1032, RoHS Compliant
SMD NANO FUSE (FAST-BLOW)



UL 248-1, UL 248-14
Operating Temperature: -55 +125 .
Storaging Temperature: -55 +85 .
: IEC IEC60068-2-58
IEC IEC60068-2-58



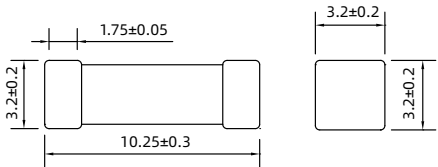
1032, RoHS Compliant
SMD NANO FUSE (SLOW-BLOW)

INTERRUPTING CAPACITY /

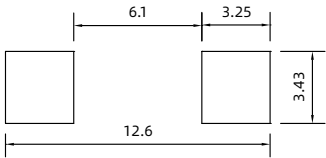
50A at 250V AC
100A at 125V AC/DC

Dimensions/

Unit mm



Land Pattern:



PACKING/

2,000 PIECES TAPED AND REELED IN ONE BOX
2,000

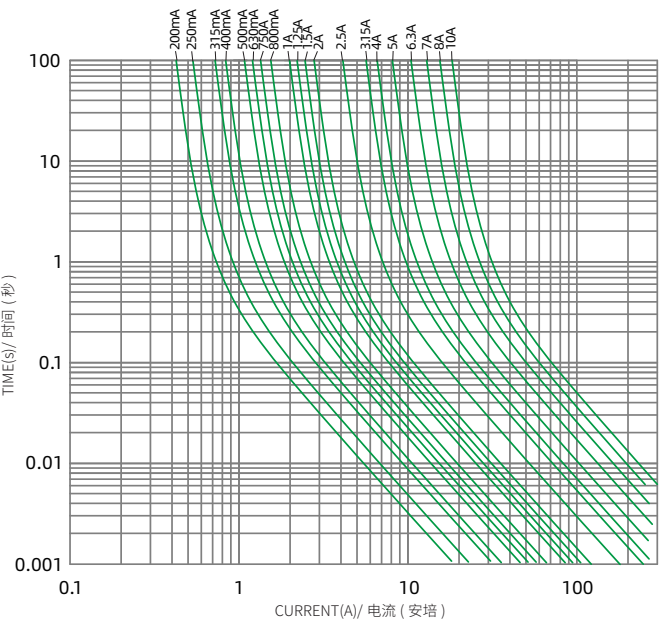
BOX SIZE/



Unit mm

3NT THE AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

3NT I-T ()



TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	RATED VOLTAGE 额定电压	SAFETY APPROVALS 安全认证	
			cURus	
			H	L
3NT-0200H/L	200mA	125V DC 125V AC 250V AC	●	●
3NT-0250H/L	250mA		●	●
3NT-0320H/L	315mA		●	●
3NT-0400H/L	400mA		●	●
3NT-0500H/L	500mA		●	●
3NT-0630H/L	630mA		●	●
3NT-0800H/L	800mA		●	●
3NT-010H/L	1A		●	●
3NT-013H/L	1.25A		●	●
3NT-016H/L	1.6A		●	●
3NT-020H/L	2A		●	●
3NT-025H/L	2.5A		●	●
3NT-032H/L	3.15A		●	●
3NT-040H/L	4A		●	●
3NT-050H/L	5A		●	●
3NT-063H/L	6.3A		●	●
3NT-080H/L	8A		●	●
3NT-100H/L	10A		●	●

● DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

●

H

L

250V

125V

ELECTRICAL CHARACTERISTICS/

:

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
200%	120 seconds Max.	最慢 120 秒

Standards/ UL 248-1, UL 248-14

Operating Temperature: -55 +125 .

Storing Temperature: -55 +85 .

: IEC IEC60068-2-58

IEC IEC60068-2-58



RoHS Compliant & Pb-Free
SMD NANO FUSE (SLOW-BLOW)

INTERRUPTING CAPACITY /

150A at 250V AC/DC
500A at 125V AC/DC

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证	REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UR/CUR	
4NT-0500H/L	500mA	●	1.30
4NT-0630H/L	630mA	●	2.15
4NT-0800H/L	800mA	●	3.60
4NT-010H/L	1A	●	7.20
4NT-013H/L	1.25A	●	13.00
4NT-016H/L	1.6A	●	16.24
4NT-020H/L	2A	●	28.00
4NT-025H/L	2.5A	●	50.00
4NT-032H/L	3.15A	●	85.00
4NT-035H/L	3.5A	●	112.00
4NT-040H/L	4A	●	141.00
4NT-050H/L	5A	●	190.00

● DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

●

H 250V

L 125V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
250%	60s Max.	最慢 60 秒

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~90

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 ± 5 10sMax

Solderability/ 235 ± 5 3.5+0.5/-0s

PACKING/

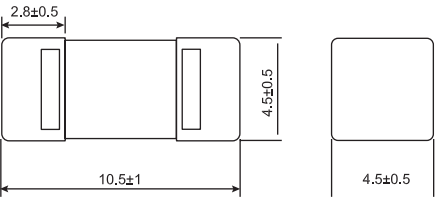
1,500 PIECES TAPED AND REELED IN ONE BOX

1,500

BOX SIZE/

Dimensions/

Unit mm



Land Pattern:

4NT AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

4NT I-T ()

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)

H

10NF

RoHS Compliant & Pb-Free

SMD NANO FUSE (FAST-BLOW)

INTERRUPTING CAPACITY /

500A at 115V DC

1000A at 100V DC

1500A at 75V DC

3500A at 32V DC

500A at 250V AC

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证					REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值
		cURus					
		H	L1	L2	L3	L4	
10NF-300	30A	●	●	●	●	●	
10NF-400	40A	●	●	●	●	●	
10NF-500	50A	●	●	●	●	●	
10NF-600	60A	●	●	●	●	●	1050
10NF-700	70A	●	●	●	●	●	1400
10NF-800	80A	●	●	●	●	●	3000
10NF-900	90A	●	●	●	●	●	4300
10NF-1000	100A	●	●	●	●	●	6900
● DENOTES FOR APPROVED		●					
H DENOTES FOR 250V AC		H					250V AC
L1 DENOTES FOR 115V DC		L1					115V DC
L2 DENOTES FOR 100V DC		L2					100V DC
L3 DENOTES FOR 75V DC		L3					75V DC
L4 DENOTES FOR 32V DC		L4					32V DC

ELECTRICAL CHARACTERISTICS/

:

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
200%	60 seconds Max.	最慢 60 秒

Standards/ UL 248-1, UL 248-14,

-55 +100 .

: I EC IEC60068-2-58

IEC IEC60068-2-58

PACKING/

500 PIECES TAPED AND REELED IN ONE BOX

500

BOX SIZE/

10NF THE AVERAGE I-T CHARACTERISTICS CURVE

(FOR YOUR REFERENCE)

10NF I-T ()

5RT

Φ8x8.5mm, RoHS Compliant & Pb-Free
RADIAL LEAD MICROFUSE (TIME-LAG)

PATENT NO. :ZL 200620053742.1

BREAKING CAPACITY /

CCC / SEMKO / VDE / cURus / BSI / KTL:
35A OR 10In 250V AC WHICHEVER IS GREATER
PSE: 100A 250V AC, cURus: 50A 300V AC, 50A 125V DC

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	Max. VOLTAGE DROP (mv) 最大电压降	SAFETY APPROVALS 安全认证								REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值
			CCC	SEMKO	VDE	cURus		BSI	PSE	KC	
			H	H	H	H ₁	H	L	H ₁	H	
5RT-0100H ₁ /H/L	100mA	350	●	●	●	●	●	●	●	●	0.02623
5RT-0125H ₁ /H/L	125mA	300	●	●	●	●	●	●	●	●	0.04499
5RT-0160H ₁ /H/L	160mA	280	●	●	●	●	●	●	●	●	0.08755
5RT-0200H ₁ /H/L	200mA	260	●	●	●	●	●	●	●	●	0.1181
5RT-0250H ₁ /H/L	250mA	240	●	●	●	●	●	●	●	●	0.2030
5RT-0315H ₁ /H/L	315mA	220	●	●	●	●	●	●	●	●	0.3597
5RT-0400H ₁ /H/L	400mA	200	●	●	●	●	●	●	●	●	0.6893
5RT-0500H ₁ /H/L	500mA	190	●	●	●	●	●	●	●	●	1.232
5RT-0630H ₁ /H/L	630mA	180	●	●	●	●	●	●	●	●	2.185
5RT-0800H ₁ /H/L	800mA	160	●	●	●	●	●	●	●	●	2.987
5RT-010H ₁ /H/L	1A	140	●	●	●	●	●	●	●	●	6.319
5RT-013H ₁ /H/L	1.25A	130	●	●	●	●	●	●	●	●	12.23
5RT-016H ₁ /H/L	1.6A	120	●	●	●	●	●	●	●	●	22.03
5RT-020H ₁ /H/L	2A	100	●	●	●	●	●	●	●	●	43.08
5RT-025H ₁ /H/L	2.5A	100	●	●	●	●	●	●	●	●	50.05
5RT-032H ₁ /H/L	3.15A	100	●	●	●	●	●	●	●	●	73.53
5RT-040H ₁ /H/L	4A	100	●	●	●	●	●	●	●	●	88.16
5RT-050H ₁ /H/L	5A	100	●	●	●	●	●	●	●	●	152.0
5RT-063H ₁ /H/L	6.3A	100	●	●	●	●	●	●	●	●	255.7

● DENOTES FOR APPROVED

H₁ DENOTES FOR 300V

H DENOTES FOR 250V

L DENOTES FOR 125V

●

H₁ 300V

H 250V

L 125V

ELECTRICAL CHARACTERISTICS/

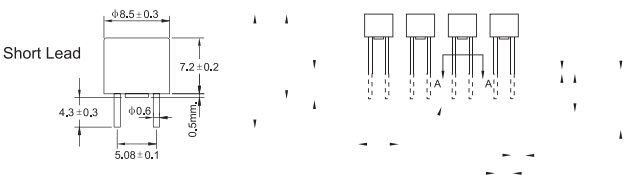
RATING 额定		BLOWING TIME 熔断时间
2.1In	Max. 最慢	2 minutes
	Min. 最快	400 ms
2.75In	Max. 最慢	10 seconds
	Min. 最快	150 ms
4In	Max. 最慢	3 seconds
	Min. 最快	20 ms
10In	Max. 最慢	150 ms

Dimensions/

5RT-XXXHB

TAPING SPECIFICATIONS /

:5RT-XXXHA



Standards/

IEC 60127, GB 9364

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

5RT AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

5RT I-T ()

TIME(s)/ 时间 (秒)

8x8.5x4mm, RoHS Compliant & Pb-Free
RADIAL LEAD MICROFUSE (QUICK-ACTING)

PATENT NO. :ZL 200620053742.1

BREAKING CAPACITY /

CCC / SEMKO / VDE / cURus / BSI:

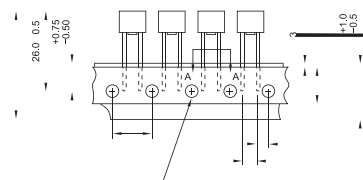
35A OR 10In 250V AC WHICHEVER IS GREATER

PSE: 100A 250V AC

Dimensions/ :
5EF-XXXHB

TAPING SPECIFICATIONS /
:5EF-XXXHA

MATERIALS: THERMOPLASTIC, UL94-V0
UL94-V0



Standards/	IEC 60127, GB 9364
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Operating Temperature/	-55	~125
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Storing Temperature/	-55 ~85
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Resistance to soldering heat/	260	10s Max.
-------------------------------	-----	----------

Solderability/	245	± 5	, 5s ± 0.5 s
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5EF AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

5EF I-T ()

TECHNICAL PARAMETERS/			:					
PART NO. 目录编号	CURRENT RATING 额定电流	Max. VOLTAGE DROP (mv) 最大电压降	SAFETY APPROVALS 安全认证					REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
			CCC	SEMKO	VDE	cURus	PSE	
5EF-0315H	315mA	400	●	●	●	●		0.02301
5EF-0400H	400mA	370	●	●	●	●		0.03848
5EF-0500H	500mA	350	●	●	●	●		0.06059
5EF-0630H	630mA	320	●	●	●	●		0.08831
5EF-0800H	800mA	300	●	●	●	●		0.1947
5EF-010H	1A	280	●	●	●	●	●	0.3133
5EF-013H	1.25A	280	●	●	●	●	●	0.5169
5EF-016H	1.6A	250	●	●	●	●	●	0.9379
5EF-020H	2A	240	●	●	●	●	●	1.542
5EF-025H	2.5A	200	●	●	●	●	●	2.555
5EF-032H	3.15A	180	●	●	●	●	●	2.085
5EF-040H	4A	160	●	●	●	●	●	2.816
5EF-050H	5A	150	●	●	●	●	●	5.473
5EF-063H	6.3A	150	●	●	●	●	●	10.31

- DENOTES FOR APPROVED

H DENOTES FOR 250V

•

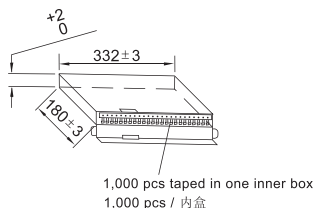
H 250V

ELECTRICAL CHARACTERISTICS/ :

RATING 额定		BLOWING TIME 熔断时间
2.1In	Max. 最慢	30 minutes
2.75In	Min. 最快	10 ms
	Max. 最慢	3 seconds
4In	Min. 最快	3 ms
	Max. 最慢	300 ms
10In	Max. 最慢	20 ms

PACKING/

1. INNER BOX/ : AMMO PACK



2. OUTER CARTON/ : 10 INNER BOXES / CARTON

CARTON SIZE / L440x W348 x H205(mm)



8x8.5x4mm, RoHS Compliant & Pb-Free RADIAL LEAD MICROFUSE (TIME-LAG)

PATENT NO. :ZL 200620053742.1

BREAKING CAPACITY /

CCC / SEMKO / VDE / BSI / KTL:

35A OR 10In 250V AC WHICHEVER IS GREATER

VDE: 35A OR 10In 300V AC WHICHEVER IS GREATER(1A-6.3A)

CCC: 35A OR 10In 300V AC WHICHEVER IS GREATER (100mA-6.3A)

PSE: 100A 250V AC

cURus: 50A 300V AC, 50A 125V DC (100mA-6.3A), 130A/200A

250V AC (0.315A-10A), 100A 400V (0.315A-10A)

TÜV: 130A 250V AC (50mA-10A)

Dimensions/
5ET-XXXHB

TAPING SPECIFICATIONS /
:5ET-XXXHA

MATERIALS: THERMOPLASTIC, UL94-V0
UL94-V0

Standards/ IEC 60127, GB 9364

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

5ET AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

5ET I-T ()

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	Max. VOLTAGE DROP (mv) 最大电压降	SAFETY APPROVALS 安全认证												REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值		
			CCC		SEMKO	VDE		cURus			BSI	PSE	KC	TÜV			
			H ₁	H	H	H ₁	H	H ₁	H	L	H	H ₁	H	H		H	
5ET-050H ₁ /H/L	50mA	550													●	0.006447	
5ET-063H ₁ /H/L	63mA	480													●	0.012907	
5ET-080H ₁ /H/L	80mA	400													●	0.019062	
5ET-0100H ₁ /H/L	100mA	350	●	●	●			●	●		●	●			●	●	0.02623
5ET-0125H ₁ /H/L	125mA	300	●	●	●			●	●		●	●			●	●	0.04499
5ET-0160H ₁ /H/L	160mA	280	●	●	●			●	●		●	●			●	●	0.08755
5ET-0200H ₁ /H/L	200mA	260	●	●	●			●	●		●	●			●	●	0.1181
5ET-0250H ₁ /H/L	250mA	240	●	●	●			●	●		●	●			●	●	0.3206
5ET-0315H ₁ /H/L	315mA	220	●	●	●			●	●	●	●	●			●	●	0.5153
5ET-0400H ₁ /H/L	400mA	200	●	●	●			●	●	●	●	●			●	●	0.7761
5ET-0500H ₁ /H/L	500mA	190	●	●	●			●	●	●	●	●			●	●	1.631
5ET-0630H ₁ /H/L	630mA	180	●	●	●			●	●	●	●	●			●	●	2.329
5ET-0800H ₁ /H/L	800mA	160	●	●	●			●	●	●	●	●			●	●	5.145
5ET-010H ₁ /H/L	1A	140	●	●	●	●	●	●	●	●	●	●	●	●	●	●	6.619
5ET-013H ₁ /H/L	1.25A	130	●	●	●	●	●	●	●	●	●	●	●	●	●	●	12.23
5ET-016H ₁ /H/L	1.6A	120	●	●	●	●	●	●	●	●	●	●	●	●	●	●	22.03
5ET-020H ₁ /H/L	2A	100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	43.08
5ET-025H ₁ /H/L	2.5A	100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	50.05
5ET-032H ₁ /H/L	3.15A	100	● ₁	●	●	●	●	●	●	●	●	●	●	●	●	●	73.53
5ET-040H ₁ /H/L	4A	100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	128.3
5ET-050H ₁ /H/L	5A	100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	190.0
5ET-063H ₁ /H/L	6.3A	100	●	●	●	●	●	●	●	●	●	●	●	●	●	●	309.5
5ET-080H ₁ /H/L	8A	100			●					●			●	●	●	●	305.7
5ET-100H ₁ /H/L	10A	100			●					●			●	●	●	●	439.2

● DENOTES FOR APPROVED

H₁ DENOTES FOR 300V

H DENOTES FOR 250V

L DENOTES FOR 125V

●

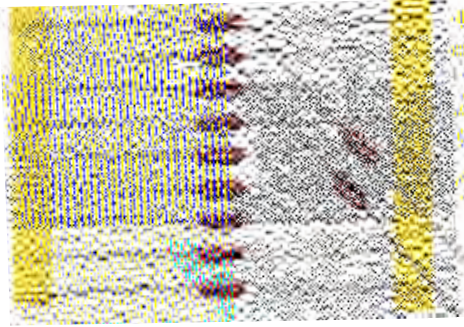
H₁ 300V

H 250V

L 125V

ELECTRICAL CHARACTERISTICS/

RATING 额定		BLOWING TIME 熔断时间	
		≥ 50mA, 且 ≤ 6.3A	> 6.3A, 且 ≤ 10A
2.1In	Max. 最慢	2 minutes	5 minutes
	Min. 最快	400 ms	1 seconds
2.75In	Max. 最慢	10 seconds	20 seconds
	Min. 最快	150 ms	150 ms
4In	Max. 最慢	3 seconds	3 seconds
	Min. 最快	20 ms	20 ms
10In	Max. 最慢	150 ms	150 ms



H 20S



Φ2.4x7mm, RoHS Compliant & Pb-Free
MICROFUSE (MEDIUM SLOW-BLOW)

INTERRUPTING CAPACITY /

50 amperes at 125V/250V AC (200mA-10A)

100 amperes at 125V AC (1A-5A) PSE

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证						REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值
		CCC	UL(cUL)		CSA		PSE	
		H	H	L	H	L	L	
20S-0200H/L	200mA	●	●	●	●	●		0.01230
20S-0250H/L	250mA	●	●	●	●	●		0.02431
20S-0300H/L	300mA		●	●	●	●		0.03270
20S-0315H/L	315mA	●	●	●	●	●		0.03671
20S-0350H/L	350mA		●	●	●	●		0.04738
20S-0375H/L	375mA		●	●	●	●		0.06790
20S-0400H/L	400mA		●	●	●	●		0.08190
20S-0500H/L	500mA	●	●	●	●	●		0.1543
20S-0600H/L	600mA		●	●	●	●		0.1591
20S-0630H/L	630mA	●	●	●	●	●		0.2808
20S-0700H/L	700mA	●	●	●	●	●		0.3874
20S-0750H/L	750mA		●	●	●	●		0.4989
20S-0800H/L	800mA	●	●	●	●	●		0.6133
20S-010H/L	1A	●	●	●	●	●	●	0.9903
20S-012H/L	1.2A		●	●	●	●	●	1.435
20S-013H/L	1.25A	●	●	●	●	●	●	1.749
20S-015H/L	1.5A		●	●	●	●	●	2.002
20S-016H/L	1.6A	●	●	●	●	●	●	2.374
20S-020H/L	2A	●	●	●	●	●	●	4.334
20S-023H/L	2.25A	●	●	●	●	●	●	6.002
20S-025H/L	2.5A	●	●	●	●	●	●	7.569
20S-030H/L	3A		●	●	●	●	●	11.64
20S-032H/L	3.15A	●	●	●	●	●	●	12.20
20S-035H/L	3.5A		●	●	●	●	●	15.72
20S-040H/L	4A	●	●	●	●	●	●	20.88
20S-050H/L	5A	●	●	●	●	●	●	42.76
20S-060H/L	6A		●	●	●	●	●	58.61
20S-063H/L	6.3A	●	●	●	●	●	●	67.99
20S-070H/L	7A		●	●	●	●	●	92.44
20S-080H/L	8A		●	●	●	●	●	74.48
20S-090H/L	9A		●	●	●	●	●	93.07
20S-100H/L	10A		●	●	●	●	●	153.6

• DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

•

H 250V

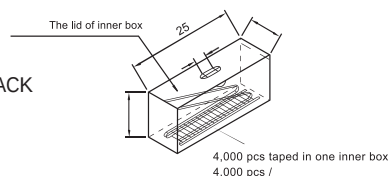
L 125V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
200%	60 seconds Max.	最慢 60 秒

PACKING/

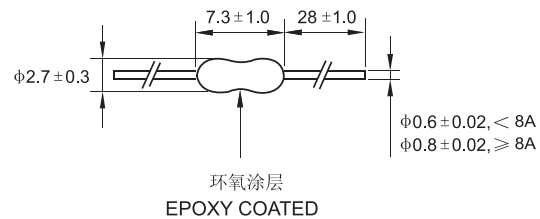
1. INNER BOX/ : AMMO PACK



2. OUTER CARTON/ : 10 INNER BOXES / CARTON

CARTON SIZE / L440x W270 x H230(mm)

Dimensions/



Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

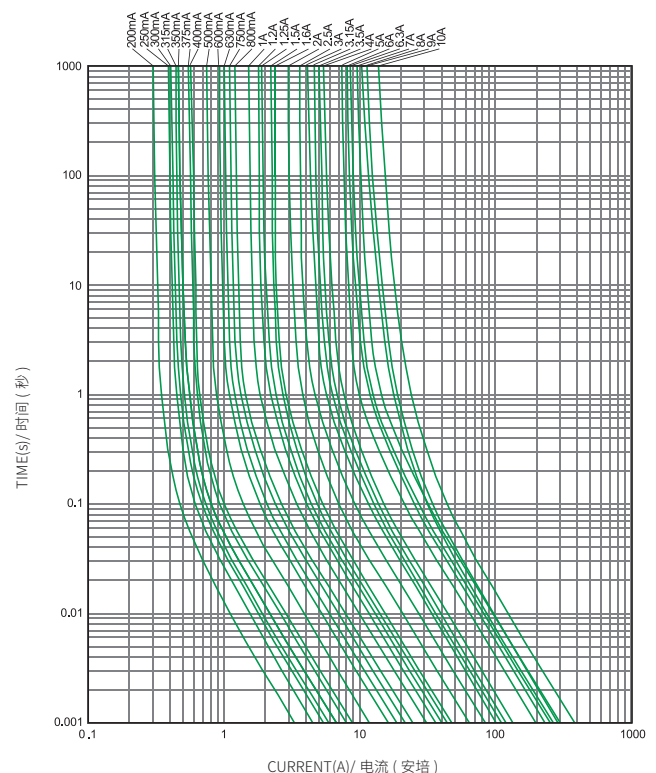
Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

20S AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

20S I-T ()



H 20T

Φ2.4x7mm, RoHS Compliant & Pb-Free
MICROFUSE (SLOW-BLOW)

INTERRUPTING CAPACITY /

30 amperes at 125V AC (100mA-7A)
30 amperes at 250V AC (100mA-7A)
100 amperes at 125V AC (1A-5A) PSE

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证								REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		CCC	UR(cUR)		CSA		TÜV		PSE	
		H	H	L	H	L	H	L	L	
20T-0375H/L	375mA		●	●	●	●				0.1614
20T-0400H/L	400mA		●	●	●	●				0.1713
20T-0500H/L	500mA	●	●	●	●	●	●	●		0.3374
20T-0600H/L	600mA		●	●	●	●	●	●		0.4662
20T-0630H/L	630mA	●	●	●	●	●	●	●		0.4890
20T-0750H/L	750mA		●	●	●	●	●	●		0.7074
20T-0800H/L	800mA	●	●	●	●	●	●	●		0.8908
20T-010H/L	1A	●	●	●	●	●	●	●	●	1.916
20T-012H/L	1.2A		●	●	●	●	●	●	●	2.061
20T-013H/L	1.25A	●	●	●	●	●	●	●	●	2.139
20T-015H/L	1.5A		●	●	●	●	●	●	●	3.982
20T-016H/L	1.6A	●	●	●	●	●	●	●	●	4.191
20T-020H/L	2A	●	●	●	●	●	●	●	●	7.803
20T-025H/L	2.5A	●	●	●	●	●	●	●	●	11.95
20T-030H/L	3A		●	●	●	●			●	14.11
20T-032H/L	3.15A	●	●	●	●	●			●	18.62
20T-035H/L	3.5A		●	●	●	●			●	20.89
20T-040H/L	4A	●	●	●	●	●			●	31.89
20T-050H/L	5A	●	●	●	●	●			●	39.51
20T-060H/L	6A		●	●	●	●				65.06
20T-063H/L	6.3A	●	●	●	●	●				68.31
20T-070H/L	7A		●	●	●	●				72.91

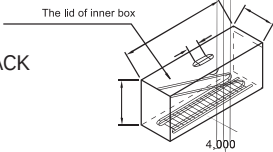
● DENOTES FOR APPROVED
H DENOTES FOR 250V
L DENOTES FOR 125V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
200%	1-60 seconds	1-60 秒
300%	0.2-3 seconds	0.2-3 秒
800%	0.02-0.1 second	0.02-0.1 秒

PACKING/

1. INNER BOX/ : AMMO PACK



2. OUTER CARTON/ : 10 INNER BOXES / CARTON
CARTON SIZE / L440x W270 x H230(mm)

Dimensions/

Standards/ UL 248-1, UL 248-14
Operating Temperature/ -55 ~125
Storing Temperature/ -55 ~85
Resistance to soldering heat/ 260 10s Max.
Solderability/ 245 ± 5 , 5s ± 0.5s

20T AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

20T I-T ()

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)

H 25S

Φ3.6x10mm, RoHS Compliant & Pb-Free
SLOW-BLOW MICROFUSE

PATENT NO. ZL 201320197259.0 ZL 201120540121.7

INTERRUPTING CAPACITY /

50 amperes at 125V/250V AC
35 amperes at 250V AC CCC
70 amperes at 265V AC (In practice)
110 amperes at 220V AC (In practice)

Dimensions/

Standards/ UL 248-1, UL 248-14, IEC 60127-1 IEC 60127-7

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

25S AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

25S I-T ()

TECHNICAL PARAMETERS/

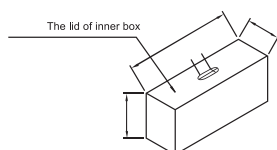
PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证								REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值	
		CCC		TÜV		UR(cUR)		PSE			KC
		H	H	L	H	L	H	L	H		
25S-010H/L	1A	●	●	●	●	●	●	●		1.502	
25S-012H/L	1.2A		●	●	●	●	●	●		2.592	
25S-013H/L	1.25A	●	●	●	●	●		●	●	3.000	
25S-015H/L	1.5A		●	●	●	●	●	●		4.225	
25S-016H/L	1.6A	●	●	●	●	●	●	●	●	4.872	
25S-020H/L	2A	●	●	●	●	●	●	●	●	10.15	
● DENOTES FOR APPROVED					●						
H DENOTES FOR 250V					H 250V						
L DENOTES FOR 125V					L 125V						

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间
100%	4 hours Min. 最快 4 小时
200%	60 seconds Max. 最慢 60 秒

PACKING/

1. INNER BOX/ : AMMO PACK

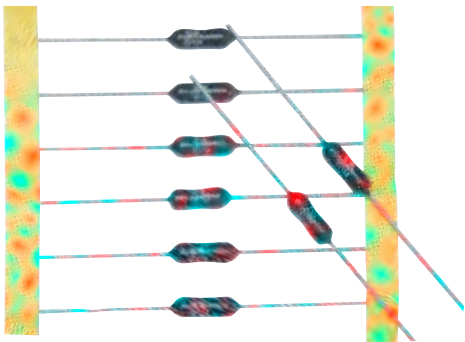


2. OUTER CARTON/ : 10 INNER BOXES / CARTON

CARTON SIZE / L440x W315 x H255(mm)

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)



Φ3.6x10mm, RoHS Compliant
FAST-BLOW MICROFUSE

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证									REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值
		UL(cUL)			CSA			PSE			
		H ₁	H ₂	L	H ₁	H ₂	L	H ₂	L		
30N-0200H ₁ /H ₂ /L	200mA				●	●	●				0.02502
30N-0250H ₁ /H ₂ /L	250mA				●	●	●				0.03852
30N-0300H ₁ /H ₂ /L	300mA				●	●	●				0.06389
30N-0315H ₁ /H ₂ /L	315mA				●	●	●				0.08730
30N-0350H ₁ /H ₂ /L	350mA				●	●	●				0.1118
30N-0375H ₁ /H ₂ /L	375mA				●	●	●				0.1426
30N-0400H ₁ /H ₂ /L	400mA				●	●	●				0.1488
30N-0500H ₁ /H ₂ /L	500mA				●	●	●				0.2581
30N-0600H ₁ /H ₂ /L	600mA				●	●	●				0.1189
30N-0630H ₁ /H ₂ /L	630mA				●	●	●				0.1279
30N-0700H ₁ /H ₂ /L	700mA				●	●	●				0.1680
30N-0750H ₁ /H ₂ /L	750mA				●	●	●				0.1978
30N-0800H ₁ /H ₂ /L	800mA	●	●	●	●	●	●				0.2285
30N-010H ₁ /H ₂ /L	1A	●	●	●	●	●	●	●	●		0.4373
30N-012H ₁ /H ₂ /L	1.2A	●	●	●	●	●	●	●	●		0.6019
30N-013H ₁ /H ₂ /L	1.25A	●	●	●	●	●	●	●	●		0.6261
30N-015H ₁ /H ₂ /L	1.5A	●	●	●	●	●	●	●	●		0.9885
30N-016H ₁ /H ₂ /L	1.6A	●	●	●	●	●	●	●	●		1.159
30N-020H ₁ /H ₂ /L	2A	●	●	●	●	●	●	●	●		2.297
30N-023H ₁ /H ₂ /L	2.25A	●	●	●	●	●	●	●	●		2.919
30N-025H ₁ /H ₂ /L	2.5A	●	●	●	●	●	●	●	●		2.152
30N-030H ₁ /H ₂ /L	3A	●	●	●	●	●	●	●	●		3.005
30N-032H ₁ /H ₂ /L	3.15A	●	●	●	●	●	●	●	●		4.174
30N-035H ₁ /H ₂ /L	3.5A	●	●	●	●	●	●	●	●		5.182
30N-040H ₁ /H ₂ /L	4A	●	●	●	●	●	●	●	●		5.712
30N-050H ₁ /H ₂ /L	5A	●	●	●	●	●	●	●	●		10.55
30N-060H ₁ /H ₂ /L	6A	●	●	●	●	●	●				15.84
30N-065H ₁ /H ₂ /L	6.3A	●	●	●	●	●	●				18.58
30N-070H ₁ /H ₂ /L	7A	●	●	●	●	●	●				23.32
30N-080H ₁ /H ₂ /D	700										

Standards/ UL 248-1, UL 248-14
Operating Temperature/ -55 ~125
Storaging Temperature/ -55 ~85
Resistance to soldering heat/ 260 10s Max.
Solderability/ 245 ± 5 , 5s ± 0.5s

/H

Φ3.6x10mm, RoHS Compliant
SLOW-BLOW MICROFUSE

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证											REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值	
		CCC	VDE	UL(cUL)			UR(cUR)			CSA		PSE		
		H ₂	H ₂ /L	H ₁	H ₂	L	H ₁	H ₁	H ₂	L	H ₂	L		
30TS-0200H ₂ /H ₂ /L	200mA	●			●	●		●	●	●	●		0.02501	
30TS-0250H ₂ /H ₂ /L	250mA	●	●		●	●	●	●	●	●	●		0.03851	
30TS-0300H ₂ /H ₂ /L	300mA				●	●	●	●	●	●	●		0.06389	
30TS-0315H ₂ /H ₂ /L	315mA	●	●		●	●	●	●	●	●	●		0.08730	
30TS-0350H ₂ /H ₂ /L	350mA				●	●	●	●	●	●	●		0.1118	
30TS-0375H ₂ /H ₂ /L	375mA				●	●	●	●	●	●	●		0.1426	
30TS-0400H ₂ /H ₂ /L	400mA		●		●	●	●	●	●	●	●		0.1488	
30TS-0500H ₂ /H ₂ /L	500mA	●	●		●	●	●	●	●	●	●		0.2581	
30TS-0600H ₂ /H ₂ /L	600mA				●	●	●	●	●	●	●		0.4782	
30TS-0630H ₂ /H ₂ /L	630mA	●	●		●	●	●	●	●	●	●		0.6634	
30TS-0700H ₂ /H ₂ /L	700mA				●	●	●	●	●	●	●		0.8058	
30TS-0750H ₂ /H ₂ /L	750mA				●	●	●	●	●	●	●		0.9581	
30TS-0800H ₂ /H ₂ /L	800mA	●	●		●	●	●	●	●	●	●		1.227	
30TS-010H ₂ /H														

1

/H

Standards/	UL 248-1, UL 248-14		
Operating Temperature/	-55	~125	
Storing Temperature/	-55	~85	
Resistance to soldering heat/	260	10s Max.	
Solderability/	245 ± 5	, 5s ± 0.5s	

H

31NM, 32NM

UL

cUL

RoHS

Φ3.6x10mm, RoHS Compliant & Pb-Free

GLASS TUBE MICROFUSE (FAST-BLOW)

INTERRUPTING CAPACITY /
50 amperes at 125V AC (100mA-15A)
50 amperes at 250V AC (100mA-15A)

TECHNICAL PARAMETERS/		SAFETY APPROVALS 安全认证					REFERENCE (A².Sec.) (RoHS) I²T 参考值
PART NO. 目录编号	CURRENT RATING 额定电流	UL		cUL		CSA	
		H	L	H	L	L	
31NM,32NM-0300H/L	300mA	●	●	●	●	●	0.07196
31NM,32NM-0315H/L	315mA	●	●	●	●	●	0.08236
31NM,32NM-0350H/L	350mA	●	●	●	●	●	0.09546
31NM,32NM-0375H/L	375mA	●	●	●	●	●	0.1172
31NM,32NM-0400H/L	400mA	●	●	●	●	●	0.1389
31NM,32NM-0500H/L	500mA	●	●	●	●	●	0.09975
31NM,32NM-0600H/L	600mA	●	●	●	●	●	0.1354
31NM,32NM-0630H/L	630mA	●	●	●	●	●	0.1422
31NM,32NM-0750H/L	750mA	●	●	●	●	●	0.1956
31NM,32NM-0800H/L	800mA	●	●	●	●	●	0.2463
31NM,32NM-010H/L	1A	●	●	●	●	●	0.3606
31NM,32NM-012H/L	1.2A	●	●	●	●	●	0.5181
31NM,32NM-013H/L	1.25A	●	●	●	●	●	0.5728
31NM,32NM-015H/L	1.5A	●	●	●	●	●	0.8601
31NM,32NM-016H/L	1.6A	●	●	●	●	●	1.115
31NM,32NM-020H/L	2A	●	●	●	●	●	2.189
31NM,32NM-023H/L	2.25A	●	●	●	●	●	2.463
31NM,32NM-025H/L	2.5A	●	●	●	●	●	1.911
31NM,32NM-030H/L	3A	●	●	●	●	●	3.420
31NM,32NM-032H/L	3.15A	●	●	●	●	●	3.833
31NM,32NM-035H/L	3.5A	●	●	●	●	●	5.155
31NM,32NM-040H/L	4A	●	●	●	●	●	5.891
31NM,32NM-050H/L	5A	●	●	●	●	●	9.401
31NM,32NM-060H/L	6A	●	●	●	●	●	16.34
31NM,32NM-063H/L	6.3A	●	●	●	●	●	20.59
31NM,32NM-070H/L	7A	●	●	●	●	●	26.03
31NM,32NM-080H/L	8A	●	●	●	●	●	30.86
31NM,32NM-090H/L	9A	●	●	●	●	●	46.89
31NM,32NM-100H/L	10A	●	●	●	●	●	59.32
31NM,32NM-120H/L	12A	●	●	●	●	●	92.27
31NM,32NM-150H/L	15A	●	●	●	●	●	243.7

● DENOTES FOR APPROVED

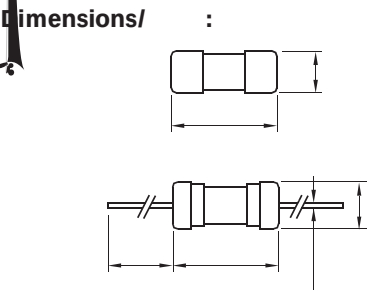
H DENOTES FOR 250V

L DENOTES FOR 125V

cUL APPROVAL IS EQUIVALENT TO CSA APPROVAL

cUL CSA

ELECTRICAL CHARACTERISTICS/		BLOWING TIME 熔断时间	
% of CURRENT RATING 额定电流的 %			
100%		4 hours Min.	最快 4 小时
200%		60 seconds Max.	最慢 60 秒



31NM/32NM AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)
31NM/32NM I-T ()

TIME(s)/ 时间 (秒)

Standards/ UL 248-1, UL 248-14
Operating Temperature/ -55 ~125
Storing Temperature/ -55 ~85
Resistance to soldering heat/ 260 10s Max.
Solderability/ 245 ± 5 , 5s ± 0.5s

CURRENT(A)/ 电流 (安培)

H 31S, 32S UL cUL SP

Φ3.6x10mm, RoHS Compliant & Pb-Free
GLASS TUBE MICROFUSE (SLOW-BLOW)

INTERRUPTING CAPACITY /

50 amperes at 125V AC (100mA-10A)

50 amperes at 250V AC (100mA-10A)

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证				REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UL/cUL		CSA		
		H	L	H	L	
31S,32S-0100H/L	100mA		●	●		0.02127
31S,32S-0125H/L	125mA	●	●	●	●	0.02058
31S,32S-0150H/L	150mA	●	●	●	●	0.04566
31S,32S-0160H/L	160mA	●	●	●	●	0.04362
31S,32S-0200H/L	200mA	●	●	●	●	0.07841
31S,32S-0250H/L	250mA	●	●	●	●	0.1531
31S,32S-0300H/L	300mA	●	●	●	●	0.2431
31S,32S-0315H/L	315mA	●	●	●	●	0.2107
31S,32S-0350H/L	350mA	●	●	●	●	0.5416
31S,32S-0375H/L	375mA	●	●	●	●	0.5196
31S,32S-0400H/L	400mA	●	●	●	●	0.4975
31S,32S-0500H/L	500mA	●	●	●	●	0.7752
31S,32S-0600H/L	600mA	●	●	●	●	0.9302
31S,32S-0630H/L	630mA	●	●	●	●	1.623
31S,32S-0750H/L	750mA	●	●	●	●	1.508
31S,32S-0800H/L	800mA	●	●	●	●	0.4494
31S,32S-010H/L	1A	●	●	●	●	1.104
31S,32S-012H/L	1.2A	●	●	●	●	1.548
31S,32S-013H/L	1.25A	●	●	●	●	1.612
31S,32S-015H/L	1.5A	●	●	●	●	2.534
31S,32S-016H/L	1.6A	●	●	●	●	2.940
31S,32S-020H/L	2A	●	●	●	●	5.579
31S,32S-023H/L	2.25A	●	●	●	●	6.276
31S,32S-025H/L	2.5A	●	●	●	●	3.375
31S,32S-030H/L	3A	●	●	●	●	5.342
31S,32S-032H/L	3.15A	●	●	●	●	5.854
31S,32S-035H/L	3.5A	●	●	●	●	7.045
31S,32S-040H/L	4A	●	●	●	●	11.05
31S,32S-050H/L	5A	●	●	●	●	18.64
31S,32S-060H/L	6A	●	●	●	●	29.38
31S,32S-063H/L	6.3A	●	●	●	●	32.13
31S,32S-070H/L	7A	●	●	●	●	44.28
31S,32S-080H/L	8A	●	●	●	●	56.69
31S,32S-090H/L	9A	●	●	●	●	82.90
31S,32S-100H/L	10A	●	●	●	●	109.1
31S,32S-120H/L	12A					150.7
31S,32S-150H/L	15A					337.4

● DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

cUL APPROVAL IS EQUIVALENT TO CSA APPROVAL cUL

CSA

●

H 250V

L 125V

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

ELECTRICAL CHARACTERISTICS/

:

% of CURRENT RATING
额定电流的 %

BLOWING TIME
熔断时间

100% 4 hours Min. 最快 4 小时

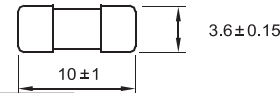
200% 1-60 seconds 1-60 秒

Dimensions/

:

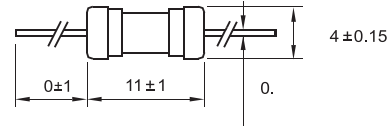
Unit mm

31S



32S

31S(P)



31S/32S AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

31S/32S I-T ()

CURRENT(A)/ 电流 (安培)



H

30T

CCC

VDE

CULUS

Φ3.6x10mm IEC STANDARD FUSE

RoHS Compliant & Pb-Free

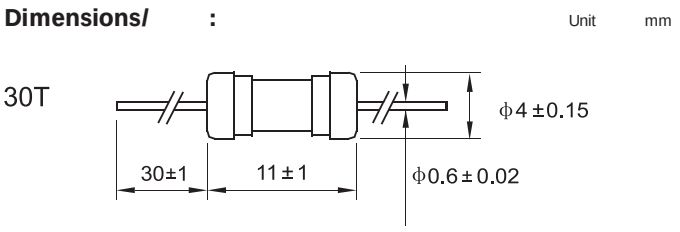
GLASS TUBE MICROFUSE (TIME-LAG)

BREAKING CAPACITY /

CQC / VDE / cURus:

35A OR 10In 250V AC WHICHEVER IS GREATER

TECHNICAL PARAMETERS/			:				
PART NO. 目录编号	CURRENT RATING 额定电流	Max. VOLTAGE DROP (mv) 最大电压降	SAFETY APPROVALS 安全认证				REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
			CCC	VDE	cURus	PSE	
30T-0200H	200mA	260	●		●		0.1981
30T-0250H	250mA	240	●	●	●		0.3120
30T-0315H	315mA	220	●	●	●		0.5219
30T-0400H	400mA	200	●	●	●		0.8606
30T-0500H	500mA	190	●	●	●		1.323
30T-0630H	630mA	180	●	●	●		2.473
30T-0800H	800mA	160	●	●	●		4.165
30T-010H	1A	140	●	●	●	●	2.811
30T-013H	1.25A	130	●	●	●	●	5.300
30T-016H	1.6A	120	●	●	●	●	6.315
30T-020H	2A	100	●	●	●	●	9.668
30T-025H	2.5A	100	●	●	●	●	16.72
30T-032H	3.15A	100	●	●	●	●	28.92
30T-040H	4A	100	●	●	●	●	60.86
30T-050H	5A	100	●	●	●	●	84.99
30T-063H	6.3A	100	●	●			213.8
30T-080H	8A	80	●				295
30T-100H	10A	75	●				451
● DENOTES FOR APPROVED			●				
H DENOTES FOR 250V			H	250V			



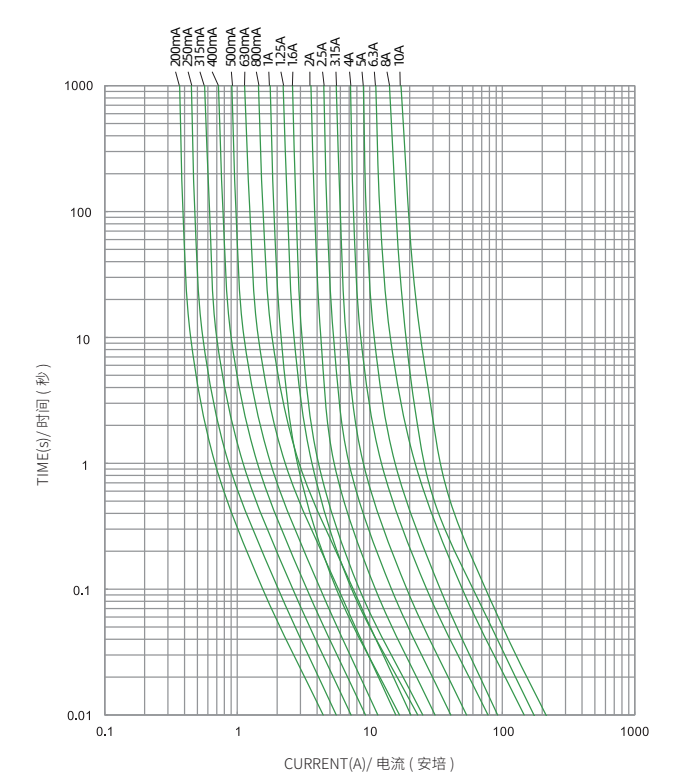
Standards/	IEC 60127 GB 9364		
Operating Temperature/	-55	~125	
Storing Temperature/	-55	~85	
Resistance to soldering heat/	260	10s Max.	
Solderability/	245 ± 5	5s ± 0.5s	

ELECTRICAL CHARACTERISTICS/			
RATING 额定		BLOWING TIME 熔断时间	
2.1In	Max. 最慢	2 minutes	
	Min. 最快	400 ms	
2.75In	Max. 最慢	10 seconds	
	Min. 最快	150 ms	
4In	Max. 最慢	3 seconds	
	Min. 最快	20 ms	
10In	Max. 最慢	150 ms	

30T AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

30T I-T ()



Ⓜ 35NM, 36NM



Φ3.6x10mm, RoHS Compliant & Pb-Free
CERAMIC TUBE MICROFUSE (FAST-BLOW)

INTERRUPTING CAPACITY /

50 amperes at 125V AC (100mA-15A)

50 amperes at 250V AC (100mA-15A)

100 amperes at 125V AC (5A-15A) PSE

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证								REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UL		cUL		CSA		PSE		
		H	L	H	L	H	L	H	L	
35NM,36NM-0300H/L	300mA	●	●	●	●	●	●			0.07196
35NM,36NM-0315H/L	315mA	●	●	●	●		●			0.08236
35NM,36NM-0350H/L	350mA	●	●	●	●		●			0.09546
35NM,36NM-0375H/L	375mA	●	●	●	●		●			0.1172
35NM,36NM-0400H/L	400mA	●	●	●	●		●			0.1389
35NM,36NM-0500H/L	500mA	●	●	●	●		●			0.09975
35NM,36NM-0600H/L	600mA	●	●	●	●		●			0.1354
35NM,36NM-0630H/L	630mA	●	●	●	●		●			0.1422
35NM,36NM-0750H/L	750mA	●	●	●	●		●			0.1956
35NM,36NM-0800H/L	800mA	●	●	●	●		●			0.2463
35NM,36NM-010H/L	1A	●	●	●	●		●			0.3606
35NM,36NM-012H/L	1.2A	●	●	●	●		●			0.5181
35NM,36NM-013H/L	1.25A	●	●	●	●		●			0.5728
35NM,36NM-015H/L	1.5A	●	●	●	●		●			0.8601
35NM,36NM-016H/L	1.6A	●	●	●	●		●			1.115
35NM,36NM-020H/L	2A	●	●	●	●					2.189
35NM,36NM-023H/L	2.25A	●	●	●	●					2.463
35NM,36NM-025H/L	2.5A	●	●	●	●					1.911
35NM,36NM-030H/L	3A	●	●	●	●					3.420
35NM,36NM-032H/L	3.15A	●	●	●	●					3.833
35NM,36NM-035H/L	3.5A	●	●	●	●					5.155
35NM,36NM-040H/L	4A	●	●	●	●					5.891
35NM,36NM-050H/L	5A	●	●	●	●				●	9.401
35NM,36NM-060H/L	6A	●	●	●	●				●	16.34
35NM,36NM-063H/L	6.3A	●	●	●	●				●	20.59
35NM,36NM-070H/L	7A	●	●	●	●				●	26.03
35NM,36NM-080H/L	8A	●	●	●	●				●	30.86
35NM,36NM-090H/L	9A	●	●	●	●				●	46.89
35NM,36NM-100H/L	10A	●	●	●	●				●	59.32
35NM,36NM-120H/L	12A	●	●	●	●				●	92.27
35NM,36NM-150H/L	15A	●	●	●	●				●	243.7

● DENOTES FOR APPROVED

H DENOTES FOR 250V H 250V

L DENOTES FOR 125V L 125V

cUL APPROVAL IS EQUIVALENT TO CSA APPROVAL

cUL CSA

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

Dimensions/ :

35NM/36NM AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

35NM/36NM I-T ()

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)

Φ3.6x10mm IEC STANDARD FUSE

RoHS Compliant & Pb-Free

CERAMIC TUBE MICROFUSE (TIME-LAG)

BREAKING CAPACITY /

Standards/	IEC 60127		
Operating Temperature/	-55	~125	
Storaging Temperature/	-55	~85	
Resistance to soldering heat/		260	10s Max
Solderability/	245	± 5	, 5s ± 0.5s

Φ4.5x15mm, RoHS Compliant & Pb-Free GLASS TUBE FUSE (FAST-BLOW)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证						REFERENCE (A°.Sec.) (RoHS) iT 参考值
		UR/cUR			PSE		KC	
		H ₁	H ₂	L	H ₂	L	H ₂	
41NM,42NM-0300H ₁ /H ₂ /L	300mA	●	●	●			●	0.0293
41NM,42NM-0315H ₁ /H ₂ /L	315mA	●	●	●			●	0.0335
41NM,42NM-0350H ₁ /H ₂ /L	350mA	●	●	●			●	0.040
41NM,42NM-0375H ₁ /H ₂ /L	375mA	●	●	●			●	0.044
41NM,42NM-0400H ₁ /H ₂ /L	400mA	●	●	●			●	0.060
41NM,42NM-0500H ₁ /H ₂ /L	500mA	●	●	●			●	0.109
41NM,42NM-0600H ₁ /H ₂ /L	600mA	●	●	●			●	0.167
41NM,42NM-0630H ₁ /H ₂ /L	630mA	●	●	●			●	0.174
41NM,42NM-0750H ₁ /H ₂ /L	750mA	●	●	●			●	0.275
41NM,42NM-0800H ₁ /H ₂ /L	800mA	●	●	●			●	0.284
41NM,42NM-010H ₁ /H ₂ /L	1A	●	●	●	●	●	●	0.525
41NM,42NM-012H ₁ /H ₂ /L	1.2A	●	●	●	●	●	●	0.604
41NM,42NM-013H ₁ /H ₂ /L	1.25A	●	●	●	●	●	●	0.626
41NM,42NM-015H ₁ /H ₂ /L	1.5A	●	●	●	●	●	●	1.426
41NM,42NM-016H ₁ /H ₂ /L	1.6A	●	●	●	●	●	●	1.500
41NM,42NM-020H ₁ /H ₂ /L	2A	●	●	●	●	●	●	3.436
41NM,42NM-023H ₁ /H ₂ /L	2.25A	●	●	●	●	●	●	3.727
41NM,42NM-025H ₁ /H ₂ /L	2.5A	●	●	●	●	●	●	5.695
41NM,42NM-030H ₁ /H ₂ /L	3A	●	●	●	●	●	●	6.546
41NM,42NM-032H ₁ /H ₂ /L	3.15A	●	●	●	●	●	●	7.202
41NM,42NM-035H ₁ /H ₂ /L	3.5A	●	●	●	●	●	●	9.454
41NM,42NM-040H ₁ /H ₂ /L	4A	●	●	●	●	●	●	13.37
41NM,42NM-050H ₁ /H ₂ /L	5A	●	●	●	●	●	●	21.78
41NM,42NM-060H ₁ /H ₂ /L	6A				●	●	●	33.06
41NM,42NM-063H ₁ /H ₂ /L	6.3A				●	●	●	36.45
41NM,42NM-070H ₁ /H ₂ /L	7A				●	●	●	45.44
41NM,42NM-080H ₁ /H ₂ /L	8A				●	●		65.46
41NM,42NM-090H ₁ /H ₂ /L	9A				●	●		84.27
41NM,42NM-100H ₁ /H ₂ /L	10A				●	●		106.7
41NM,42NM-120H ₁ /H ₂ /L	12A				●	●		
41NM,42NM-150H ₁ /H ₂ /L	15A	●			●	●		

● DENOTES FOR APPROVED

H₁ DENOTES FOR 300V

H₂ DENOTES FOR 250V

L DENOTES FOR 125V

●

H₁ 300V

H₂ 250V

L 125V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hour Min.	最快 4 小时
135%	1 hour Max.	最慢 1 小时
200%		
	熔 熔	L 熔断

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max

Solderability/ 245 ± 5 , 5s ± 0.5s



H 51NM,52NM UL C UL TUV SPS PS E JET KC

Φ5.2x20mm, RoHS Compliant & Pb-Free GLASS TUBE FUSE (FAST-BLOW)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证										REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UL(cUL)		UR		CSA		PSE		KC		
		H	L	H	L	H	L	H	L	H		
51NM,52NM-0200H/L	200mA	●	●			●	●			●	0.02697	
51NM,52NM-0250H/L	250mA	●	●			●	●			●	0.03371	
51NM,52NM-0300H/L	300mA	●	●			●	●			●	0.04045	
51NM,52NM-0315H/L	315mA	●	●			●	●			●	0.04247	
51NM,52NM-0350H/L	350mA	●	●			●	●			●	0.04719	
51NM,52NM-0400H/L	400mA	●	●			●	●			●	0.06145	
51NM,52NM-0500H/L	500mA	●	●			●	●			●	0.07681	
51NM,52NM-0600H/L	600mA	●	●			●	●			●	0.1224	
51NM,52NM-0630H/L	630mA	●	●			●	●			●	0.1790	
51NM,52NM-0750H/L	750mA	●	●			●	●			●	0.3040	
51NM,52NM-0800H/L	800mA	●	●			●	●			●	0.3550	
51NM,52NM-010H/L	1A	●	●			●	●	●	●	●	0.6167	
51NM,52NM-012H/L	1.2A	●	●			●	●	●	●	●	1.400	
51NM,52NM-013H/L	1.25A	●	●			●	●	●	●	●	1.540	
51NM,52NM-015H/L	1.5A	●	●			●	●	●	●	●	2.076	
51NM,52NM-016H/L	1.6A	●	●			●	●	●	●	●	3.450	
51NM,52NM-020H/L	2A	●	●			●	●	●	●	●	5.149	
51NM,52NM-025H/L	2.5A	●	●			●	●	●	●	●	5.761	
51NM,52NM-030H/L	3A		●	●		●	●	●	●	●	9.722	
51NM,52NM-032H/L	3.15A		●	●		●	●	●	●	●	9.835	
51NM,52NM-035H/L	3.5A		●	●		●	●	●	●	●	13.52	
51NM,52NM-040H/L	4A		●	●		●	●	●	●	●	15.80	
51NM,52NM-050H/L	5A		●	●		●	●	●	●	●	29.11	
51NM,52NM-060H/L	6A		●	●		●	●	●	●	●	47.42	
51NM,52NM-063H/L	6.3A		●	●		●	●	●	●	●	59.24	
51NM,52NM-070H/L	7A		●	●		●	●	●	●	●	73.10	
51NM,52NM-080H/L	8A		●	●		●	●	●	●	●	100.0	
51NM,52NM-090H/L	9A							●	●		153.9	
51NM,52NM-100H/L	10A							●	●		171.0	
51NM,52NM-120H/L	12A							●	●		306.2	
51NM,52NM-150H/L	15A							●	●		382.8	

● DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

●

H 250V

L 125V

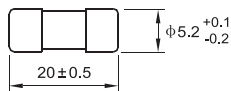
Dimensions/

:

Unit

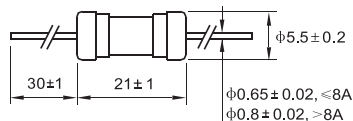
mm

51NM



52NM

51NM(P)



INTERRUPTING CAPACITY/

10,000 amperes at 125V AC (32mA-8A)

35 amperes at 250V AC (32mA-1A)

100 amperes at 250V AC (1.2A-3.5A)

200 amperes at 250V AC (4A-8A)

100 amperes at 125V AC (1A-15A) PSE (51NM)

500 amperes at 125V AC (1A-15A) PSE (52NM)

100 amperes at 250V AC (1A-15A) PSE (51NM/52NM)

100 amperes at 250V AC (100mA-7A) KC

ELECTRICAL CHARACTERISTICS/

:

% of CURRENT RATING
额定电流的 %BLOWING TIME
熔断时间

100%

4 hours Min.

最快 4 小时

135%

1 hour Max.

最慢 1 小时

200%

5 seconds Max.

最慢 5 秒

Standards/

UL 248-1, UL 248-14

Operating Temperature/

-55

~125

Storing Temperature/

-55

~85

Resistance to soldering heat/

260

10s Max

Solderability/

245

± 5

, 5s ± 0.5s

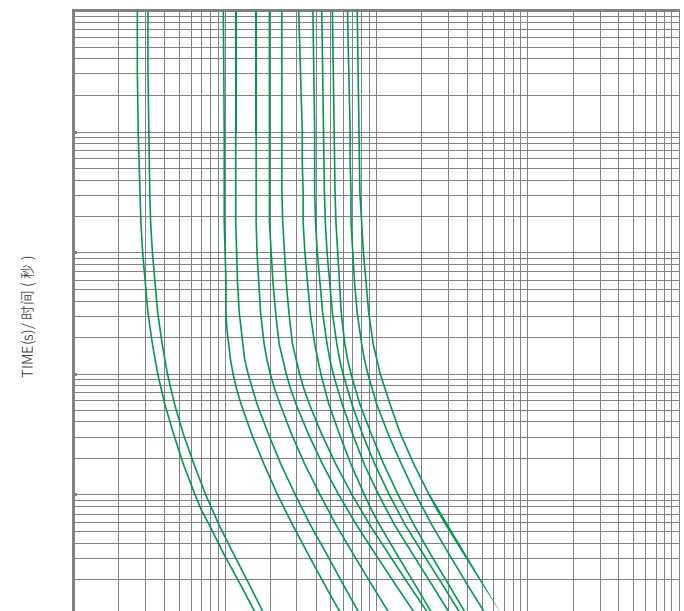
51NM/52NM AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

51NM/52NM

I-T

()



CURRENT(A)/ 电流 (安培)

Φ5.2x20mm, RoHS Compliant & Pb-Free
GLASS TUBE FUSE (MEDIUM SLOW-BLOW)

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证										REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UL(cUL)		UR		CSA		PSE		KC		
		H	L	H	L	H	L	H	L	H	L	
51MS,52MS-0100H/L	100mA	●	●			●	●			●		0.01227
51MS,52MS-0125H/L	125mA	●	●			●	●			●		0.02530
51MS,52MS-0150H/L	150mA	●	●			●	●			●		0.02325
51MS,52MS-0160H/L	160mA	●	●			●	●			●		0.04315
51MS,52MS-0200H/L	200mA	●	●			●	●			●		0.08063
51MS,52MS-0250H/L	250mA	●	●			●	●			●		0.1341
51MS,52MS-0300H/L	300mA	●	●			●	●			●		0.2167
51MS,52MS-0315H/L	315mA	●	●			●	●			●		0.2393
51MS,52MS-0350H/L	350mA	●	●			●	●			●		0.3061
51MS,52MS-0375H/L	375mA	●	●			●	●			●		0.4017
51MS,52MS-0400H/L	400mA	●	●			●	●			●		0.3766
51MS,52MS-0500H/L	500mA	●	●			●	●			●		0.7704
51MS,52MS-0600H/L	600mA	●	●			●	●			●		0.6552
51MS,52MS-0630H/L	630mA	●	●			●	●			●		0.6880
51MS,52MS-0700H/L	700mA	●	●			●	●			●		0.7551
51MS,52MS-0750H/L	750mA	●	●			●	●			●		0.8669
57												

57

Standards/ UL 248-1, UL 248-14
Operating Temperature/ -55 ~125
Storing Temperature/ -55 ~85
Resistance to soldering heat/ 260 10s Max
Solderability/ 245 ± 5 , 5s ± 0.5s



Φ5.2x20mm, RoHS Compliant & Pb-Free
GLASS TUBE FUSE (SLOW-BLOW)

INTERRUPTING CAPACITY/

10,000 amperes at 125V AC (32mA-8A)

35 amperes at 250V AC (32mA-1A)

100 amperes at 250V AC (1.2mA-3.5A)

200 amperes at 250V AC (4A-8A)

100 amperes at 125V AC (1A-15A) PSE (51S)

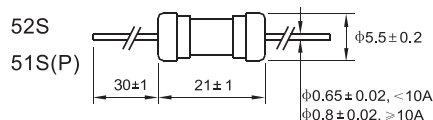
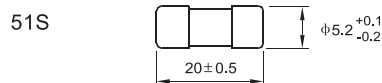
500 amperes at 125V AC (1A-15A) PSE (52S)

100 amperes at 250V AC (1A-15A) PSE (51S/52S)

100 amperes at 250V AC (100mA-10A) KC

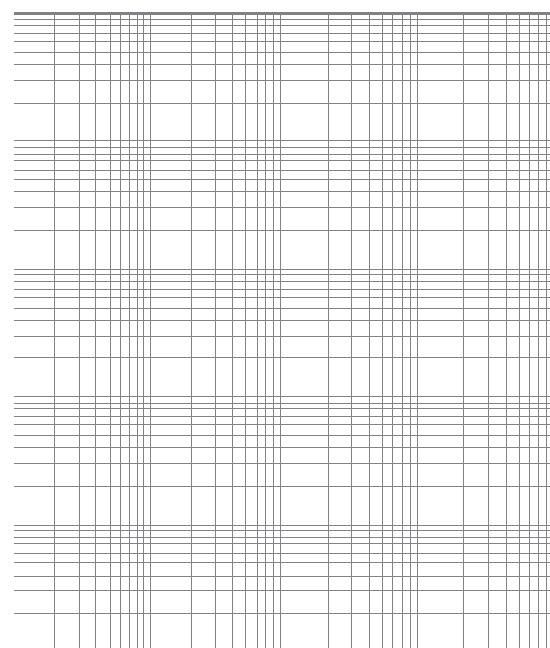
Dimensions/ :

Unit mm



51S/52S AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

51S/52S I-T ()



TIME(s)/时间(秒)

CURRENT(A)/ 电流 (安培)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证									REFERENCE (A ² .Sec.) (RoHS) I ^T 参考值
		UL(cUL)		UR		CSA		PSE		KC	
		H	L	H	L	H	L	H	L	H	
51S,52S-0100H/L	100mA	●	●			●	●			●	0.03971
51S,52S-0125H/L	125mA	●	●			●	●			●	0.04963
51S,52S-0150H/L	150mA	●	●			●	●			●	0.1613
51S,52S-0160H/L	160mA	●	●			●	●			●	0.1720
51S,52S-0200H/L	200mA	●	●			●	●			●	0.2224
51S,52S-0250H/L	250mA	●	●			●	●			●	0.2780
51S,52S-0300H/L	300mA	●	●			●	●			●	0.4817
51S,52S-0315H/L	315mA	●	●			●	●			●	0.5257
51S,52S-0350H/L	350mA	●	●			●	●			●	0.9952
51S,52S-0375H/L	375mA	●	●			●	●			●	0.8734
51S,52S-0400H/L	400mA	●	●			●	●			●	1.2604
51S,52S-0500H/L	500mA	●	●			●	●			●	1.9567
51S,52S-0600H/L	600mA	●	●			●	●			●	0.5040
51S,52S-0630H/L	630mA	●	●			●	●			●	0.5660
51S,52S-0700H/L	700mA	●	●			●	●			●	0.7183
51S,52S-0750H/L	750mA	●	●			●	●			●	0.8350
51S,52S-0800H/L	800mA	●	●			●	●			●	1.030
51S,52S-010H/L	1A	●	●			●	●	●	●	●	2.242
51S,52S-012H/L	1.2A	●	●			●	●	●	●	●	3.960
51S,52S-013H/L	1.25A	●	●			●	●	●	●	●	4.070
51S,52S-015H/L	1.5A	●	●			●	●	●	●	●	8.440
51S,52S-016H/L	1.6A	●	●			●	●	●	●	●	9.800
51S,52S-020H/L	2A	●	●			●	●	●	●	●	13.95
51S,52S-025H/L	2.5A	●	●			●	●	●	●	●	24.49
51S,52S-030H/L	3A		●	●		●	●	●	●	●	14.15
51S,52S-032H/L	3.15A	●	●			●	●	●	●	●	14.35
51S,52S-035H/L	3.5A	●	●			●	●	●	●	●	21.12
51S,52S-040H/L	4A		●	●		●	●	●	●	●	30.80
51S,52S-050H/L	5A	●	●			●	●	●	●	●	46.97
51S,52S-060H/L	6A		●	●	●	●	●	●	●	●	69.59
51S,52S-063H/L	6.3A		●	●	●	●	●	●	●	●	73.07
51S,52S-070H/L	7A		●	●	●	●	●	●	●	●	104.5
51S,52S-080H/L	8A		●	●	●	●	●	●	●	●	152.0
51S,52S-090H/L	9A							●	●	●	206.8
51S,52S-100H/L	10A							●	●	●	274.6
51S,52S-120H/L	12A							●	●		387.9
51S,52S-150H/L	15A							●	●		690.3

• DENOTES FOR APPROVED

H DENOTES FOR 250V

H 250V

L DENOTES FOR 125V

L 125V

ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
135%	1 hour Max.	最慢 1 小时
200%	120 seconds Max.	最慢 120 秒

Standards/	UL 248-1, UL 248-14
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Operating Temperature/	-55	~125
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Storing Temperature/	-55 ~85
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Resistance to soldering heat/	260	10s Max
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Solderability/	245	± 5	, 5s ± 0.5 s
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50F



Φ5.2x20mm IEC STANDARD FUSE RoHS Compliant & Pb-Free
LOW-BREAKING CAPACITY GLASS
TUBE FUSE (QUICK-ACTING)

BREAKING CAPACITY/

35A OR 10In 250V AC WHICHEVER IS GREATER (125mA-16A)

Dimensions/

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	MAX. VOLTAGE DROP 最大电压降 (mv)	SAFETY APPROVALS 安全认证										REFERENCE (A°.Sec.) (RoHS) I°T 参考值
			CCC	CQC	SEMKO	VDE	BSI	IMQ	UR (CUR)	CSA	PSE	KC	
50F-0160H	160mA	2000											0.0099
50F-0200H	200mA	1700	●		●	●	●	●	●	●		●	0.02563
50F-0250H	250mA	1400	●		●	●	●	●	●	●		●	0.02717
50F-0315H	315mA	1300	●		●	●	●	●	●	●		●	0.08200
50F-0400H	400mA	1200	●		●	●	●	●	●	●		●	0.1224
50F-0500H	500mA	1000	●		●	●	●	●	●	●		●	0.2050
50F-0630H	630mA	650	●		●	●	●	●	●	●		●	0.5505
50F-0750H	750mA	400							●	●		●	0.7780
50F-0800H	800mA	240	●		●	●	●	●	●	●		●	0.5747
50F-010H	1A	200	●		●	●	●	●	●	●		●	1.240
50F-013H	1.25A	200	●		●	●	●	●	●	●		●	1.810
50F-016H	1.6A	190	●		●	●	●	●	●	●		●	3.200
50F-020H	2A	170	●		●	●	●	●	●	●		●	7.256
50F-025H	2.5A	170	●		●	●	●	●	●	●		●	13.69
50F-032H	3.15A	150	●		●	●	●	●	●	●		●	22.33
50F-040H	4A	130	●		●	●	●	●	●	●		●	35.19
50F-050H	5A	130	●		●	●	●	●	●	●		●	58.83
50F-063H	6.3A	130	●		●	●	●	●	●	●		●	104.6
50F-080H	8A	130		●	●	●			●		●	●	185.6
50F-100H	10A	130		●	●	●			●		●	●	244.4
50F-120H	12A	100							●		●		428.5
50F-125H	12.5A	100		●	●	●			●		●		473.1
50F-150H	15A	100							●		●		838.8
50F-160H	16A	100		●	●	●			●				894.7
50F-200H	20A	100											1877

● DENOTES FOR APPROVED
H DENOTES FOR 250V

REMARK

50F(P)-125H/160H WITHOUT VDE/SEMKO APPROVAL

50F(P)-125H/160H VDE/SEMKO

ELECTRICAL CHARACTERISTICS/

RATING 额定		BLOWING TIME 熔断时间			
		125mA-6.3A	8A-10A	12A-16A	>16A
2.1In	Max. 最慢	30 minutes	30 minutes	30 minutes	30 minutes
	Min. 最快	50 ms	50 ms	50 ms	100 ms
2.75In	Max. 最慢	2 seconds	2 seconds	3 seconds	6 seconds
	Min. 最快	10 ms	10 ms	10 ms	20 ms
4In	Max. 最慢	300 ms	400 ms	400 ms	600 ms
10In	Max. 最慢	20 ms	40 ms	50 ms	60 ms



50T



Φ5.2x20mm IEC STANDARD FUSE RoHS Compliant & Pb-Free
LOW-BREAKING CAPACITY GLASS
TUBE FUSE (TIME-LAG)

TECHNICAL PARAMETERS/

NO. 号	CURRENT RATING 额定电流	MAX. VOLTAGE DROP 最大电压降 (mv)	SAFETY APPROVALS 安全认证										REFERENCE (A²·Sec.) (RoHS) i²t 参考值
			CCC	CQC	SEMKO	VDE	BSI	IMQ	UR (CUR)	CSA	PSE	KC	
00H	100mA	2500	●										0.0223
25H	125mA	2000	●										0.0417
60H	160mA	1900	●		●	●	●	●	●	●		●	0.0767
00H	200mA	1500	●		●	●	●	●	●	●		●	0.1628
60H	250mA	1300	●		●	●	●	●	●	●		●	0.3808
25H	315mA	1100	●		●	●	●	●	●	●		●	0.4833
00H	400mA	1000	●		●	●	●	●	●	●		●	0.7968
00H	500mA	900	●							●	●		1.362
80H	630mA	300	●							●		●	1.583
00H	800mA	250	●		●	●	●	●	●			●	3.004
00H	1A	150	●		●	●	●	●	●		●	●	5.309
3H	1.25A	150	●		●	●	●	●	●		●	●	3.879
6H	1.6A	150	●		●	●	●	●	●		●	●	6.890
00H	2A	150	●		●	●	●	●	●		●	●	12.33
5H	2.5A	120	●		●	●	●	●	●		●	●	20.63
2H	3.15A	100	●		●	●	●	●	●		●	●	36.91
00H	4A	100	●		●	●	●	●	●		●	●	70.56
00H	5A	100	●		●	●	●	●	●		●	●	108.7
3H	6.3A	100	●		●	●	●	●	●		●	●	187.8
00H	8A	100		●	●	●			●		●		314.9
00H	10A	100		●	●	●			●		●		583.4
00H	12A	80							●		●		958.9
5H	12.5A	80		●	●	●			●		●		1045
00H	15A	80							●		●		1668
00H	16A	80		●	●	●							2231
00H	20A	80											3691

NOTES FOR APPROVED

NOTES FOR 250V H 250V

ARK

160H WITHOUT VDE AND SEMKO APPROVAL

160H VDE SEMKO

TRICAL CHARACTERISTICS

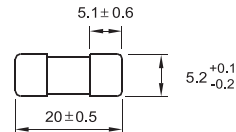
RATING 额定	熔断时间		
	1A-10A	>10A	
Max. 最快	2 minutes	5 minutes	
	600 ms	600 ms	
	10 seconds	15 seconds	
40 ms	150 ms	150 ms	
3 seconds	3 seconds	5 seconds	
10 ms	20 ms	20 ms	
Max. 最慢	300 ms	400 ms	

BREAKING CAPACITY/

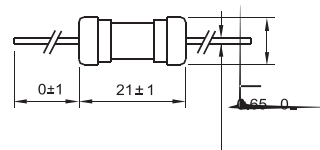
35A OR 10In 250V AC WHICHEVER IS GREATER

Dimensions/

50T



50T(P)



Standards/

IEC 60127 GB 9364

Operating Temperature/

-55 ~125

Storing Temperature/

-55 ~85

Resistance to soldering heat/

260 10s Max

Solderability/

±5 , 5s ±0.5s

50T AVERAGE CHARACTERISTICS CURVE (FOR RESISTANCE ONLY)

50T ()

TIME(S)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)



H50CF

Φ5.2x20mm IEC STANDARD FUSE RoHS Compliant & Pb-Free
HIGH BREAKING CAPACITY CERAMIC
TUBE FUSE (QUICK-ACTING)

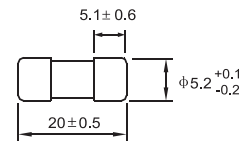
BREAKING CAPACITY/

1,500 amperes at 250V AC

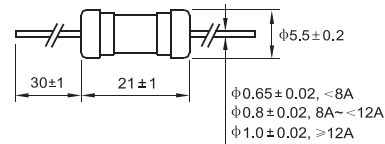
10,000 amperes at 250V AC (250mA-6.3A) UR/cUR

Dimensions/

50CF



50CF(P)



Standards/

IEC 60127 GB 9364

Operating Temperature/

-55 ~125

Storing Temperature/

-55 ~85

Resistance to soldering heat/

260 10s Max

Solderability/

245 ± 5 , 5s ± 0.5s

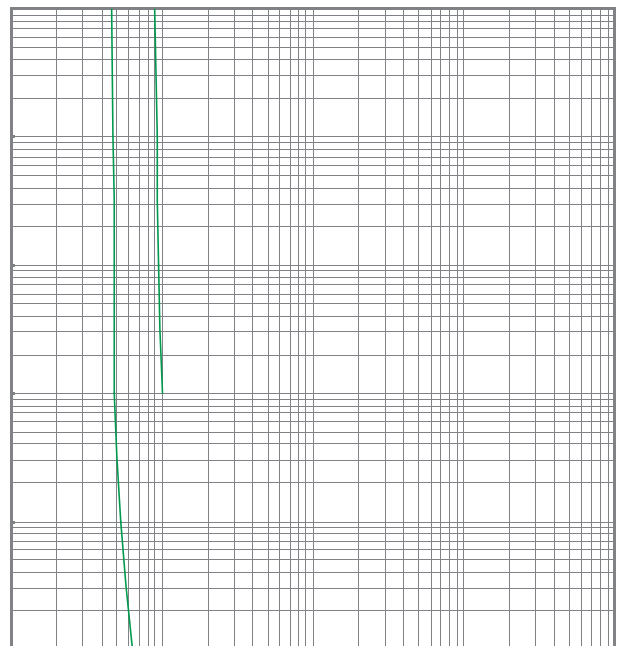
50CF AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

50CF

I-T ()

TIME(s)/ 时间 (秒)



CURRENT(A)/ 电流 (安培)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	MAX. VOLTAGE DROP 最大电压降 (mv)	SAFETY APPROVALS 安全认证								REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
			CCC	CQC	SEMKO	VDE	UR/cUR	BSI	PSE	KC	
50CF-0250H	250mA	2800	●	●	●	●	●	●	●	●	0.0040
50CF-0315H	315mA	2500	●	●	●	●	●	●	●	●	0.0142
50CF-0400H	400mA	2000	●	●	●	●	●	●	●	●	0.0200
50CF-0500H	500mA	1800	●	●	●	●	●	●	●	●	0.0309
50CF-0630H	630mA	1500	●	●	●	●	●	●	●	●	0.0672
50CF-0800H	800mA	1200	●	●	●	●	●	●	●	●	0.1210
50CF-010H	1A	1000	●	●	●	●	●	●	●	●	0.2019
50CF-013H	1.25A	800	●	●	●	●	●	●	●	●	0.4489
50CF-016H	1.6A	600	●	●	●	●	●	●	●	●	1.243
50CF-020H	2A	500	●	●	●	●	●	●	●	●	2.204
50CF-025H	2.5A	400	●	●	●	●	●	●	●	●	1.995
50CF-032H	3.15A	350	●	●	●	●	●	●	●	●	4.271
50CF-040H	4A	300	●	●	●	●	●	●	●	●	12.22
50CF-050H	5A	250	●	●	●	●	●	●	●	●	24.20
50CF-063H	6.3A	200	●	●	●	●	●	●	●	●	51.30
50CF-080H	8A	200	●	●	●	●	●	●	●	●	102.2
50CF-100H	10A	200	●	●	●	●	●	●	●	●	204.7
50CF-120H	12A	200	●	●	●	●	●	●	●	●	360.5
50CF-125H	12.5A	180	●	●	●	●	●	●	●	●	407.6
50CF-150H	15A	180	●	●	●	●	●	●	●	●	698.5
50CF-160H	16A	180	●	●	●	●	●	●	●	●	891.2

● DENOTES FOR APPROVED

H DENOTES FOR 250V

●

H

250V

ELECTRICAL CHARACTERISTICS/

RATING 额定		BLOWING TIME 熔断时间			
		250mA-4A	5A-6.3A	8A-10A	>10A
2.1In	Max. 最慢	30 minutes	30 minutes	30 minutes	30 minutes
	Min. 最快	10 ms	10 ms	40 ms	40 ms
2.75In	Max. 最慢	2 seconds	3 seconds	20 seconds	20 seconds
	Min. 最快	3 ms	3 ms	10 ms	10 ms
4In	Max. 最慢	300 ms	300 ms	1 second	1 second
	Min. 最快	20 ms	20 ms	30 ms	40 ms



Φ5.2x20mm IEC STANDARD FUSE RoHS Compliant & Pb-Free

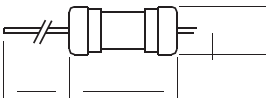
HIGH BREAKING CAPACITY CERAMIC

TUBE FUSE (TIME-LAG)

BREAKING CAPACITY/
1,500 amperes at 250V AC

Dimensions/ : Unit mm

| — |



Standards/	IEC 60127 GB 9364		
Operating Temperature/	-55	~125	
Storing Temperature/	-55	~85	
Resistance to soldering heat/		260	10s Max
Solderability/	245 ± 5	, 5s ± 0.5s	

50CT AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

50CT I-T ()

ELECTRICAL CHARACTERISTICS/ :

RATING 额定	BLOWING TIME 熔断时间				
	200mA-800mA	1A-3.15A	4A-10A	>10A	
2.1In	Max. 最慢	30 minutes	30 minutes	30 minutes	30 minutes
	Min. 最快	250 ms	750ms	750 ms	1 second
2.75In	Max. 最慢	80 seconds	80 seconds	80 seconds	80 seconds
	Min. 最快	50 ms	95 ms	150 ms	150 ms
4In	Max. 最慢	5 seconds	5 seconds	5 seconds	8 seconds
	Min. 最快	5 ms	10 ms	10 ms	20 ms
10In	Max. 最慢	150 ms	150 ms	150 ms	150 ms



Φ5.2x20mm RoHS Compliant & Pb-Free CERAMIC TUBE FUS (QUICK-ACTING)

BREAKING CAPACITY/

1,500A amperes at 300V AC

1,000A amperes at 420V AC / 500V AC (250mA-3.15A)

200A amperes at 420V AC / 500V AC (4A-20A)

100A amperes at 600V AC

1,500A amperes at 300V DC Time Constant ≤ 1ms

1,500A amperes at 420V DC / 450V DC(250mA-3.15A) Time Constant ≤ 1ms

400A amperes at 420V DC / 450V DC(4A-20A) Time Constant ≤ 1ms

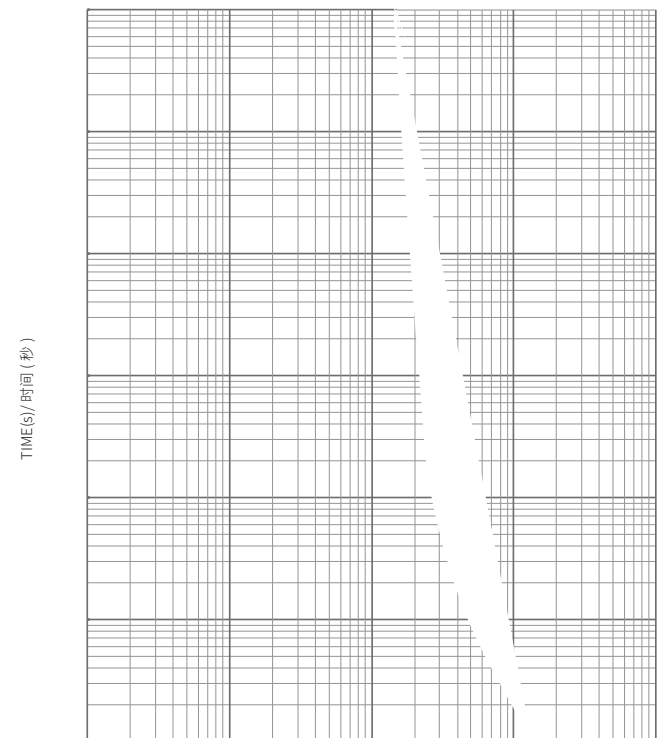
100A amperes at 300V AC(1A-20A) (PSE)

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	MAX. VOLTAGE DROP (mv) 最大电压降	SAFETY APPROVALS 安全认证			REFERENCE (A ² Sec.) (RoHS) I ² T 参考值
			cURus	TÜV	PSE	
5HF-0250H	250mA	2800	●	●		0.0054
5HF-0315H	315mA	2500	●	●		0.068
5HF-0400H	400mA	2000	●	●		0.0117
5HF-0500H	500mA	1800	●	●		0.0202
5HF-0630H	630mA	1500	●	●		0.0409
5HF-0800H	800mA	1200	●	●		0.0874
5HF-010H	1A	1000	●	●	●	0.1330
5HF-013H	1.25A	800	●	●	●	0.1664
5HF-016H	1.6A	600	●	●	●	0.3415
5HF-020H	2A	500	●	●	●	0.6986
5HF-025H	2.5A	500	●	●	●	1.613

5HF AVERAGE I-T CHARACTERISTICS CL (FOR REFERENCE ONLY)

I-T ()



CURRENT(A)/ 电流 (安培)

5HF-005H	0.5A	2000	●	●	●	21.50
5HF-080H	8A	200	●	●	●	17.94
5HF-100H	10A	200	●	●	●	29.51
5HF-120H	12A	200	●	●	●	56.19
5HF-125H	12.5A	180	●	●	●	61.96
5HF-150H	15A	180	●	●	●	90.41
5HF-160H	16A	180	●	●	●	98.79
5HF-200H	20A	180	●	●	●	211.3
5HF-250H	25A	180	●			

● DENOTES FOR APPROVED
 H DENOTES FOR 500V
 H₁ DENOTES FOR 420V
 H₂ DENOTES FOR 450V
 H₃ DENOTES FOR 600V
 L DENOTES FOR 300V

● 500V
 H₁ 420V
 H₂ 450V
 H₃ 600V
 L 300V

ELECTRICAL CHARACTERISTICS/

RATING 额定		BLOWING TIME 熔断时间			
		250mA-4A	5A-6.3A	8A-10A	>10A
2.1In	Max. 最慢	30 minutes	30 minutes	30 minutes	30 minutes
2.75In	Min. 最快	10 ms	10 ms	40 ms	40 ms
	Max. 最慢	2 seconds	3 seconds	20 seconds	20 seconds
4In	Min. 最快	3 ms	3 ms	10 ms	10 ms
	Max. 最慢	300 ms	300 ms	1 second	1 second
10In	Max. 最慢	20 ms	20 ms	30 ms	40 ms



Φ5.2x20mm RoHS Compliant & Pb-Free
CERAMIC TUBE FUSE (TIME-LAG)

BREAKING CAPACITY/

200A amperes at 500V AC
100A amperes at 600V AC
1,500 amperes at 400V DC (2A-3.15A) Time Constant ≤ 1ms
500 amperes at 400V DC (4A-10A) Time Constant ≤ 1ms
400 amperes at 400V DC (12A-16A) Time Constant ≤ 1ms

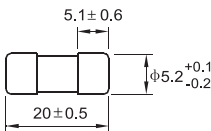
TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	MAX. VOLTAGE DROP 最大电压降 (mv)	SAFETY APPROVALS 安全认证		REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
			cURus	TÜV	
5HT-020H	2A	190	●	●	7.952
5HT-025H	2.5A	180	●	●	9.746
5HT-032H	3.15A	140	●	●	10.24
5HT-040H	4A	100	●	●	22.48
5HT-050H	5A	100	●	●	33.52
5HT-063H	6.3A	100	●	●	68.18
5HT-080H	8A	100	●	●	73.46
5HT-100H	10A	100	●	●	123.2
5HT-120H	12A	80	●	●	234.1
5HT-125H	12.5A	80	●	●	272.2
5HT-150H	15A	80	●	●	349.1
5HT-160H	16A	80	●	●	445.2
5HT-200H	20A	80	○	○	
5HT-250H	25A	80	○	○	

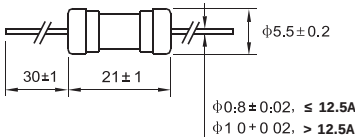
● DENOTES FOR APPROVED
○ DENOTES FOR PENDING
H DENOTES FOR 500V
H₁ DENOTES FOR 400V
H₂ DENOTES FOR 600V

Dimensions/

5HT



5HT(P)



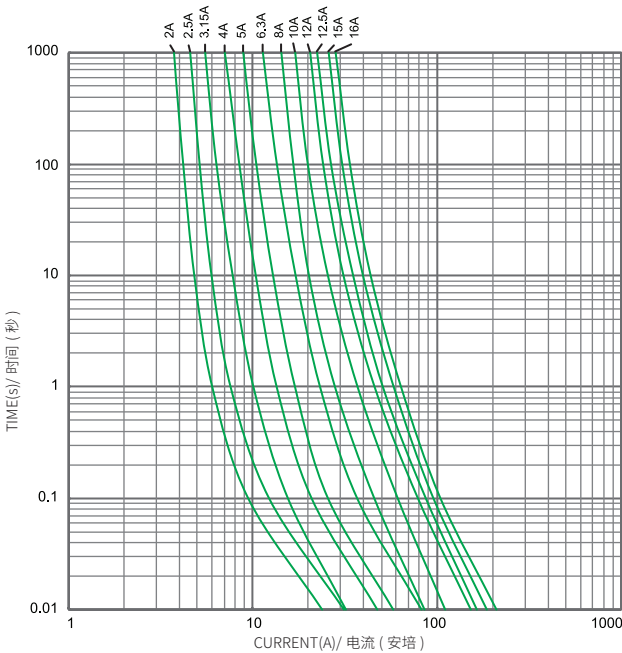
Standards/

IEC 60127 GB 9364

Operating Temperature/ -55 ~125
Storing Temperature/ -55 ~85
Resistance to soldering heat/ 260 10s Max
Solderability/ 245 ± 5 , 5s ± 0.5s

5HT AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

5HT I-T ()

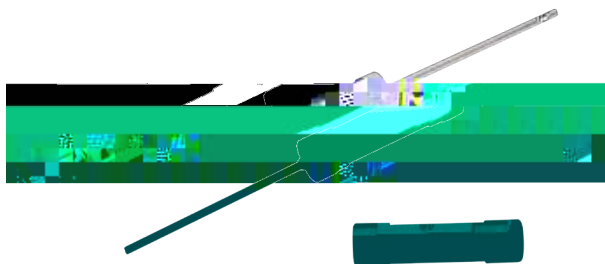


ELECTRICAL CHARACTERISTICS/

RATING 额定		BLOWING TIME 熔断时间		
		2A-3.15A	4A-10A	>10A
2.1In	Max. 最慢	30 minutes	30 minutes	30 minutes
	Min. 最快	750 ms	750 ms	1 second
2.75In	Max. 最慢	80 seconds	80 seconds	80 seconds
	Min. 最快	95 ms	150 ms	150 ms
4In	Max. 最慢	5 seconds	5 seconds	8 seconds
	Min. 最快	10 ms	10 ms	20 ms
10In	Max. 最慢	150 ms	150 ms	150 ms

Φ5.2x20mm RoHS Compliant & Pb-Free
HIGH BREAKING CAPACITY CERAMIC
TUBE FUSE (VERY FAST-ACTING)

5FF



Φ6.35×32mm RoHS Compliant & Pb-Free CERAMIC TUBE FUSE (NORMAL-BLOW)

BREAKING CAPACITY/

2500A at 75V AC

2000A at 125V AC

1500A at 250V AC

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证			REFERENCE (A ² Sec.) (RoHS) iT 参考值
		cURus			
		H	L	L1	
60NM-250H/L/L1	25A	●	●	●	2149
60NM-300H/L/L1	30A	●	●	●	2748
60NM-400H/L/L1	40A	●	●	●	8099
60NM-500H/L/L1	50A	●	●	●	12199
● DENOTES FOR APPROVED		●			
H DENOTES FOR 250V		H	250V AC		
L DENOTES FOR 125V		L	125V AC		
L1 DENOTES FOR 75V		L1	75V AC		

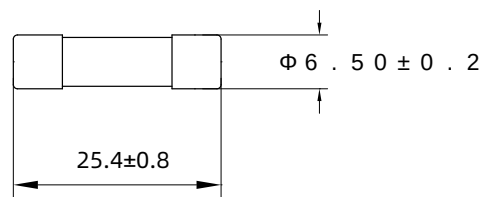
ELECTRICAL CHARACTERISTICS/

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间
100%	4 hour Min.
200%	120c. Maximum

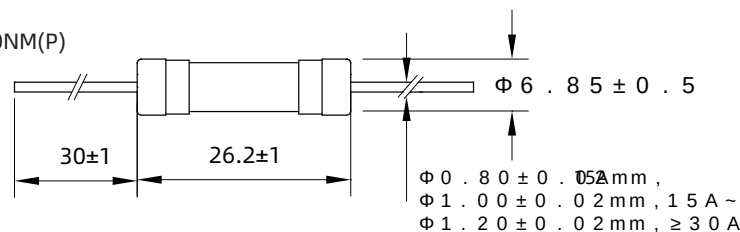
Dimensions/

Unit mm

60NM



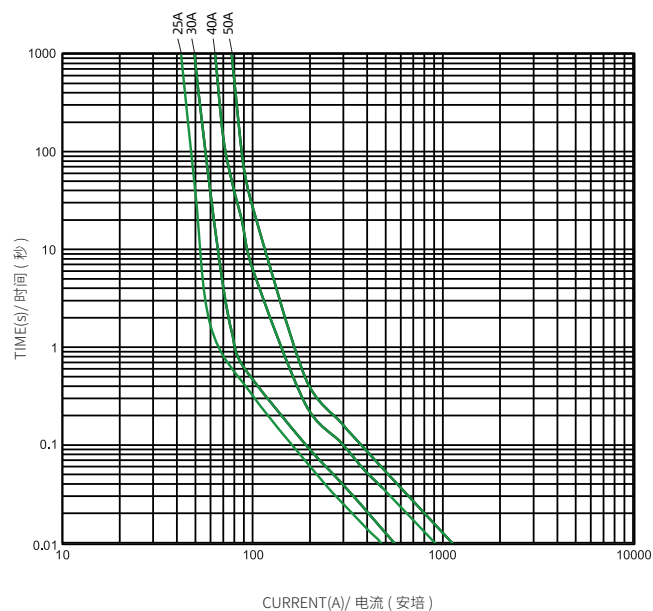
60NM(P)



60NM AVERAGE I-T CHARACTERISTICS CURVE

(FOR REFERENCE ONLY)

60NM I-T ()





Φ6.35x32mm, RoHS Compliant & Pb-Free GLASS TUBE FUSE (FAST BLOW)

INTERRUPTING CAPACITY /

10,000 amperes at 125V AC (32mA-10A)
35 amperes at 250V AC (32mA-1A)
100 amperes at 250V AC (1.2A-3.5A)
200 amperes at 250V AC (4A-10A)
100 amperes at 125V AC (1A-30A) PSE (61NM)
500 amperes at 125V AC (1A-15A) PSE (62NM)
100 amperes at 125V AC (16A-30A) PSE (62NM)
100 amperes at 250V AC (1A-30A) PSE (61NM/62NM)
100 amperes at 250V AC (100mA-10A) KC
300 amperes at 32V AC/DC (12A-30A) UR/cUR

TECHNICAL PARAMETERS/

:

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证										REFERENCE (A ² ·Sec.) (RoHS) I ² T 参考值
		UL(cUL)			UR/cUR		CSA		PSE		KC	
		H	L	L1	H	L	H	L	H	L	H	
61NM,62NM-0200H/L	200mA	●	●		●	●					●	0.00655
61NM,62NM-0250H/L	250mA	●	●		●	●					●	0.0123
61NM,62NM-0300H/L	300mA	●	●		●	●					●	0.0215
61NM,62NM-0315H/L	315mA	●	●		●	●					●	0.0239
61NM,62NM-0350H/L	350mA	●	●		●	●					●	0.0384
61NM,62NM-0400H/L	400mA	●	●		●	●					●	0.0515
61NM,62NM-0500H/L	500mA	●	●		●	●					●	0.112
61NM,62NM-0600H/L	600mA	●	●		●	●					●	0.213
61NM,62NM-0630H/L	630mA	●	●		●	●					●	0.239
61NM,62NM-0750H/L	750mA	●	●		●	●					●	0.399
61NM,62NM-0800H/L	800mA	●	●		●	●					●	0.504
61NM,62NM-010H/L	1A	●	●		●	●	●	●	●	●	●	0.968
61NM,62NM-012H/L	1.2A	●	●		●	●	●	●	●	●	●	1.751
61NM,62NM-013H/L	1.25A	●	●		●	●	●	●	●	●	●	1.788
61NM,62NM-015H/L	1.5A	●	●		●	●	●	●	●	●	●	3.565
61NM,62NM-016H/L	1.6A	●	●		●	●	●	●	●	●	●	4.026
61NM,62NM-020H/L	2A	●	●		●	●	●	●	●	●	●	8.57
61NM,62NM-025H/L	2.5A	●	●		●	●	●	●	●	●	●	14.21
61NM,62NM-030H/L	3A	●	●		●	●	●	●	●	●	●	23.12
61NM,62NM-032H/L	3.15A	●	●		●	●	●	●	●	●	●	25.70
61NM,62NM-035H/L	3.5A	●	●		●	●	●	●	●	●	●	32.15
61NM,62NM-040H/L	4A	●	●		●	●	●	●	●	●	●	43.65
61NM,62NM-050H/L	5A	●	●		●	●	●	●	●	●	●	72.54
61NM,62NM-060H/L	6A	●	●		●	●	●	●	●	●	●	120.2
61NM,62NM-063H/L	6.3A	●	●		●	●	●	●	●	●	●	168.7
61NM,62NM-070H/L	7A	●	●		●	●	●	●	●	●	●	195.3
61NM,62NM-080H/L	8A	●	●		●	●	●	●	●	●	●	393.0
61NM,62NM-090H/L	9A	●	●		●	●	●	●	●	●	●	476.5
61NM,62NM-100H/L	10A	●	●		●	●	●	●	●	●	●	556.9
61NM,62NM-120H/L/L1	12A			●					●	●		805.9
61NM,62NM-150H/L/L1	15A			●					●	●		1868
61NM,62NM-160H/L/L1	16A			●					●	●		2196
61NM,62NM-200H/L/L1	20A			●					●	●		3212
61NM,62NM-250H/L/L1	25A			●					●	●		5902
61NM,62NM-300H/L/L1	30A			●					●	●		8494

● DENOTES FOR APPROVED

H DENOTES FOR 250V

L DENOTES FOR 125V

L₁ DENOTES FOR 32V

●

H 250V

L 125V

L₁ 32V

ELECTRICAL CHARACTERISTICS/

:

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
135%	1 hour Max.	最慢 1 小时
200%	5 seconds Max.	最慢 5 秒

Standards/ UL 248-1, UL 248-14

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)

Φ6.35x32mm, RoHS Compliant & Pb-Free
GLASS TUBE FUSE (SLOW-BLOW)

TECHNICAL PARAMETERS/ :

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证										REFERENCE (A ² Sec.) (RoHS) I ² T 参考值
		UL(cUL)		CSA		PSE		TÜV		KC		
		H	L	H	L	H	L	H	L	H		
61S,62S-0200H/L	200mA	●	●	●	●			●	●	●	0.262	
61S,62S-0250H/L	250mA	●	●	●	●			●	●	●	0.415	
61S,62S-0300H/L	300mA	●	●	●	●			●	●	●	0.820	
61S,62S-0315H/L	315mA	●	●	●	●			●	●	●	0.910	
61S,62S-0350H/L	350mA	●	●	●	●			●	●	●	1.091	
61S,62S-0400H/L	400mA	●	●	●	●			●	●	●	1.550	
61S,62S-0500H/L	500mA	●	●	●	●			●	●	●	2.512	
61S,62S-0600H/L	600mA	●	●	●	●			●	●	●	3.803	
61S,62S-0630H/L	630mA	●	●	●	●			●	●	●	4.285	
61S,62S-0750H/L	750mA	●	●	●	●			●	●	●	7.705	
61S,62S-0800H/L	800mA	●	●	●	●			●	●	●	1.542	
61S,62S-010H/L	1A	●	●	●	●	●	●	●	●	●	3.373	
61S,62S-012H/L	1.2A	●	●	●	●	●	●	●	●	●	5.115	
61S,62S-013H/L	1.25A	●	●	●	●	●	●	●	●	●	5.789	
61S,62S-015H/L	1.5A	●	●	●	●	●	●	●	●	●	10.02	
61S,62S-016H/L	1.6A	●	●	●	●	●	●	●	●	●	11.52	
61S,62S-020H/L	2A	●	●	●	●	●	●	●	●	●	7.48	
61S,62S-025H/L	2.5A	●	●	●	●	●	●	●	●	●	11.43	
61S,62S-030H/L	3A	●	●	●	●	●	●	●	●	●	18.71	
61S,62S-032H/L	3.15A	●	●	●	●	●	●	●	●	●	20.45	
61S,62S-035H/L	3.5A	●	●	●	●	●	●	●	●	●	25.55	
61S,62S-040H/L	4A	●	●	●	●	●	●	●	●	●	32.96	
61S,62S-050H/L	5A	●	●	●	●	●	●	●	●	●	57.80	
61S,62S-060H/L	6A					●	●	●	●	●	95.06	
61S,62S-063H/L	6.3A					●	●	●	●	●	105.2	
61S,62S-070H/L	7A					●	●	●	●	●	150.5	
61S,62S-080H/L	8A					●	●	●	●	●	213.8	
61S,62S-090H/L	9A					●	●	●	●	●	284.0	
61S,62S-100H/L	10A					●	●	●	●	●	363.1	
61S,62S-120H/L	12A					●	●	●	●	●	616.6	
61S,62S-150H/L	15A					●	●	●	●	●	1009	
● DENOTES FOR APPROVED				●								
H DENOTES FOR 250V				H		250V						
L DENOTES FOR 125V				L		125V						

ELECTRICAL CHARACTERISTICS/ :

% of CURRENT RATING 额定电流的 %	BLOWING TIME 熔断时间	
100%	4 hours Min.	最快 4 小时
135%	1 hour Max.	最慢 1 小时
200%	120 seconds Max.	最慢 120 秒

Standards/UL 248-1, UL 248-14

Operating Temperature/-55 ~125

Storing Temperature/-55 ~85

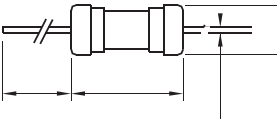
Resistance to soldering heat/260 10s Max.

Solderability/245 ± 5 , 5s ± 0.5s

INTERRUPTING CAPACITY /

10,000 amperes at 125V AC (32mA-5A)
35 amperes at 250V AC (32mA-1A)
100 amperes at 250V AC (1.2A-3.5A)
200 amperes at 250V AC (4A-5A)
100 amperes at 125V AC (1A-15A) PSE (61S)
500 amperes at 125V AC (1A-15A) PSE (62S)
100 amperes at 250V AC (1A-15A) PSE (61S/62S)
100 amperes at 250V AC (32mA-15A) KC
35 amperes or 10In 250V AC whichever is greater (TÜV)

Dimensions/ :



61S/62S AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

61S/62S I-T ()

TIME(s)/ 时间 (秒)

CURRENT(A)/ 电流 (安培)

Φ6.35x32mm, RoHS Compliant & Pb-Free
CERAMIC TUBE FUSE (FAST-BLOW)

Resistan
S



61CT

Φ6.35x32mm, RoHS Compliant & Pb-Free
CERAMIC TUBE FUSE TIME-LAG FUSE

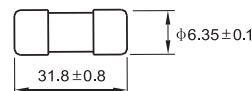
BREAKING CAPACITY /

500 amperes at 500V AC (2A-30A)

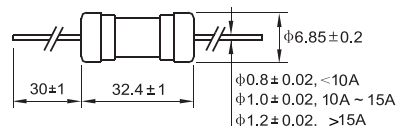
Dimensions/

Unit mm

61CT

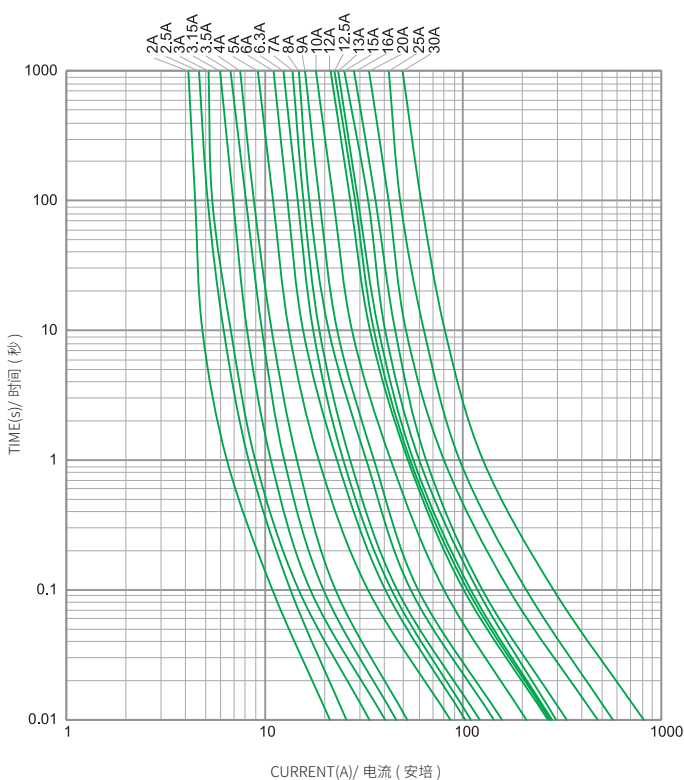


61CT(P)



61CT AVERAGE I-T CHARACTERISTICS CURVE (FOR REFERENCE ONLY)

61CT I-T ()



TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证	REFERENCE (A ² .Sec.) (RoHS) I ² T 参考值
		UR(cUR) H	
61CT-020H	2A	●	4.545
61CT-025H	2.5A	●	6.682
61CT-030H	3A	●	11.44
61CT-035H	3.5A	●	21.19
61CT-040H	4A	●	27.39
61CT-050H	5A	●	74.63
61CT-060H	6A	●	105.3
61CT-063H	6.3A	●	121.6
61CT-070H	7A	●	147.3
61CT-080H	8A	●	206.2
61CT-090H	9A	●	248.6
61CT-100H	10A	●	435.0
61CT-120H	12A	●	722.9
61CT-125H	12.5A	●	759.0
61CT-150H	15A	●	879.1
61CT-160H	16A	●	1112
61CT-200H	20A	●	2281
61CT-250H	25A	●	3251
61CT-300H	30A	●	6651

● DENOTES FOR APPROVED

H DENOTES FOR 500V

●

H 500V

ELECTRICAL CHARACTERISTICS/

RATING 额定		BLOWING TIME 熔断时间	
		≤ 10A	>10A
2.1In	Max. 最慢	30 minutes	30 minutes
	Min. 最快	1s	1s
2.75In	Max. 最慢	80 seconds	80 seconds
	Min. 最快	150 ms	150 ms
4In	Max. 最慢	5seconds	5 seconds
	Min. 最快	10 ms	20 ms
10In	Max. 最慢	150 ms	150 ms

Standards/ GB 9364, IEC 60127

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max.

Solderability/ 245 ± 5 , 5s ± 0.5s

Φ6.35x32mm IEC STANDARD FUSE
RoHS Compliant & Pb-Free
TIME-LAG FUSE

Standards/ GB 9364, IEC 60127



Φ6.35x32mm, RoHS Compliant & Pb-Free CERAMIC TUBE FUSE (VERY FAST-ACTING)

BREAKING CAPACITY/

50,000 amperes at 1000V AC/DC (200mA-2A) (In practice)
Time constant ≤ 1ms(1000V DC)

10,000 amperes at 1000V AC (200mA-2A)

10,000 amperes at 500V AC / 600V AC (200mA-10A)

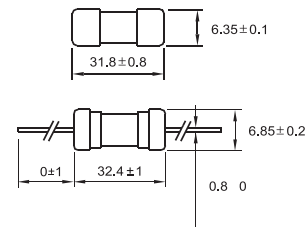
10,000 amperes at 500V DC / 1000V DC (200mA-2A) UR/cUR
Time constant ≤ 1ms

10,000 amperes at 500V AC/DC (2.5A-30A)

400 amperes at 650V DC / 800V DC (2.5A-10A)

Dimensions/

Unit mm



Standards/ IEC 60127

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max

Solderability/ 245 ± 5 , 5s ± 0.5s

6FF AND 6FF-1 AVERAGE I-T CHARACTERISTICS CURVE
(FOR REFERENCE ONLY)

6FF 6FF-1 I-T ()

TECHNICAL PARAMETERS/

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证									I ² T 参考值 REFERENCE (A ² ·Sec.) (RoHS)
		UR/cUR						TÜV			
		H6	H7	H1	H2	H4	H5	H1	H2	H3	
6FF/6FF-1-0200H ₁ /H ₂ /H ₃ /H ₄ /H ₅	200mA										0.00573
6FF/6FF-1-0250H ₁ /H ₂ /H ₃ /H ₄ /H ₅	250mA										0.00926
6FF/6FF-1-0300H ₁ /H ₂ /H ₃ /H ₄ /H ₅	300mA										0.0152
6FF/6FF-1-0315H ₁ /H ₂ /H ₃ /H ₄ /H ₅	315mA										0.0168
6FF/6FF-1-0350H ₁ /H ₂ /H ₃ /H ₄ /H ₅	350mA										0.0208
6FF/6FF-1-0375H ₁ /H ₂ /H ₃ /H ₄ /H ₅	375mA										0.0241
6FF/6FF-1-0400H ₁ /H ₂ /H ₃ /H ₄ /H ₅	400mA										0.0203
6FF/6FF-1-0500H ₁ /H ₂ /H ₃ /H ₄ /H ₅	500mA										0.0342
6FF/6FF-1-0600H ₁ /H ₂ /H ₃ /H ₄ /H ₅	600mA										0.0386
6FF/6FF-1-0630H ₁ /H ₂ /H ₃ /H ₄ /H ₅	630mA										0.0406
6FF/6FF-1-0700H ₁ /H ₂ /H ₃ /H ₄ /H ₅	700mA										0.0532
6FF/6FF-1-0750H ₁ /H ₂ /H ₃ /H ₄ /H ₅	750mA										0.0763
6FF/6FF-1-0800H ₁ /H ₂ /H ₃ /H ₄ /H ₅	800mA										0.0925
6FF/6FF-1-010H ₁ /H ₂ /H ₃ /H ₄ /H ₅	1A										0.142
6FF/6FF-1-013H ₁ /H ₂ /H ₃ /H ₄ /H ₅	1.25A										0.218
6FF/6FF-1-015H ₁ /H ₂ /H ₃ /H ₄ /H ₅	1.5A										0.328
6FF/6FF-1-016H ₁ /H ₂ /H ₃ /H ₄ /H ₅	1.6A										0.411
6FF/6FF-1-020H ₁ /H ₂ /H ₃ /H ₄ /H ₅	2A										0.738
6FF-025H ₂ /H ₃ /H ₄ /H ₇	2.5A	●	●		●		●		●	●	1.271
6FF-030H ₂ /H ₃ /H ₄ /H ₇	3A	●	●		●		●		●	●	1.950
6FF-032H ₂ /H ₃ /H ₄ /H ₇	3.15A	●	●		●		●		●	●	2.188
6FF-035H ₂ /H ₃ /H ₄ /H ₇	3.5A	●	●		●		●		●	●	2.728
6FF-040H ₂ /H ₃ /H ₄ /H ₇	4A	●	●		●		●		●	●	3.631
6FF-050H ₂ /H ₃ /H ₄ /H ₇	5A	●	●		●		●		●	●	6.457
6FF-060H ₂ /H ₃ /H ₄ /H ₇	6A	●	●		●		●		●	●	9.247
6FF-063H ₂ /H ₃ /H ₄ /H ₇	6.3A	●	●		●		●		●	●	10.24
6FF-070H ₂ /H ₃ /H ₄ /H ₇	7A	●	●		●		●		●	●	11.48
6FF-080H ₂ /H ₃ /H ₄ /H ₇	8A	●	●		●		●		●	●	16.44
6FF-100H ₂ /H ₃ /H ₄ /H ₇	10A	●	●		●		●		●	●	24.10
6FF-120H ₂	12A				●		●				33.85
6FF-125H ₂	12.5A				●		●				38.63
6FF-150H ₂	15A				●		●				55.28
6FF-160H ₂	16A				●		●				63.53
6FF-200H ₂	20A				●		●				76.21
6FF-250H ₂	25A				●		●				121.3
6FF-300H ₂	30A				●		●				382

• DENOTES FOR APPROVED

H₁ DENOTES FOR 1000V_{ac} 6FF/6FF(P) 200mA-2A H₁ 1000V_{ac}

H₂ DENOTES FOR 500V_{ac} 6FF-1/6FF(P)-1 200mA-2A H₂ 500V_{ac}

H₃ DENOTES FOR 600V_{ac} 6FF/6FF(P) 2.5A-30A H₃ 600V_{ac}

H₄ DENOTES FOR 1000V_{dc} 6FF/6FF(P) 200mA-2A H₄ 1000V_{dc}

H₅ DENOTES FOR 500V_{dc} 6FF-1/6FF(P)-1 200mA-2A H₅ 500V_{dc}

H₆ DENOTES FOR 150V_{dc} 6FF(P) 2.5A-10A H₆ 650V_{dc}

H₇ DENOTES FOR 800V_{dc} 6FF(P) 2.5A-10A H₇ 800V_{dc}

ELECTRICAL CHARACTERISTICS/

RATING 额定	BLOWING TIME 熔断时间			
	< 1A	1A-10A	> 10A-16A	>16A-25A
2.1In Max. 最慢	—	30 minutes	30 minutes	30 minutes
2.75In Min. 最快	—	5 ms	10 ms	10 ms
Max. 最慢	—	1 sec.	2 sec.	5 sec.
4In Max. 最慢	60 ms	60 ms	100 ms	200 ms
10In Max. 最慢	6 ms	6 ms	10 ms	10 ms



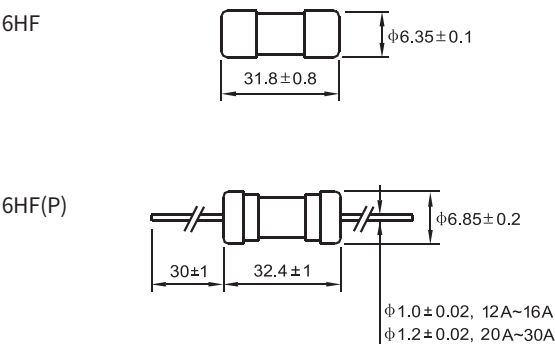
H

6HF

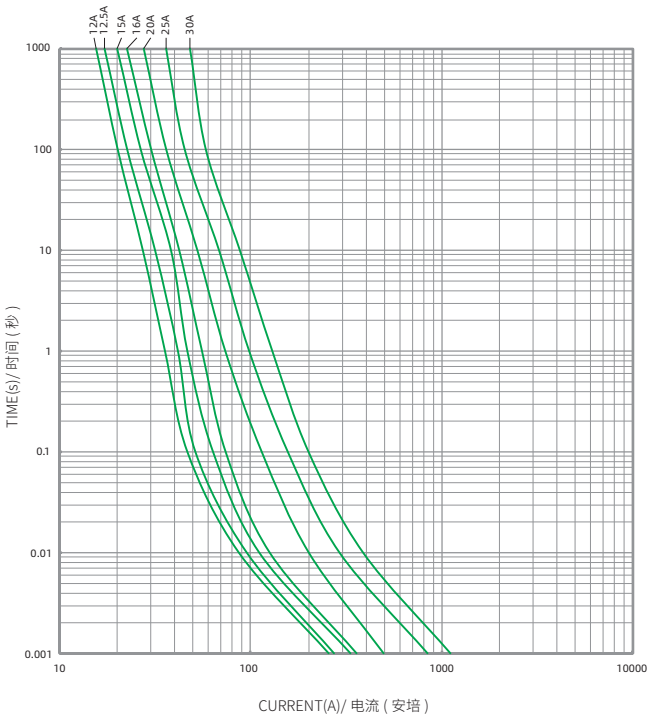
Φ6.35x32mm, RoHS Compliant & Pb-Free
CERAMIC TUBE FUSE (FAST-ACTING)

INTERRUPTING CAPACITY /
10000 amperes at 500V AC/DC UR/CUR
10000 amperes at 500V AC/DC (30A)TÜV

Dimensions/ : Unit mm



6HF RoHS Average I-T Characteristics Curve
(FOR REFERENCE ONLY)
6HF RoHS I-T ()



TECHNICAL PARAMETERS/ :

PART NO. 目录编号	CURRENT RATING 额定电流	SAFETY APPROVALS 安全认证		REFERENCE (A².Sec.) (RoHS) I²T 参考值
		UR/CUR	TÜV	
		H	H	
6HF-120H	12A	●		65.31
6HF-125H	12.5A	●		74.29
6HF-150H	15A	●		110.4
6HF-160H	16A	●		127.9
6HF-200H	20A	●		319.8
6HF-250H	25A	●		707.5
6HF-300H	30A	●	●	1228

● DENOTES FOR APPROVED

H DENOTES FOR 500V ac

●

H 500V ac/dc

ELECTRICAL CHARACTERISTICS/ :

RATING 额定		BLOWING TIME 熔断时间
2.1In	Max. 最慢	30 minutes
	Min. 最快	40ms
2.75In	Max. 最慢	40sec.
	Min. 最快	10ms
4In	Min. 最快	5sec.
	Max. 最慢	60ms

Standards/ IEC 60127

Operating Temperature/ -55 ~125

Storing Temperature/ -55 ~85

Resistance to soldering heat/ 260 10s Max

Solderability/ 245 ± 5 , 5s ± 0.5s



TH

(TH SERIES)



THERMAL LINKS

Dimensions/ :

TECHNICAL PARAMETERS/

PART NO. 目录编号	额定动作温度		保持温度						ROHS 符合 RoHS Compliance
	Rated functioning temp.(Tf)		Holding temp.(Th °C)		Maximum temp. limit(Tm °C)		Rated current (Ir)	Rated voltage AC (Ur)	
	规格值	实测值	规格值	实测值	规格值	实测值			
TH72	72°C	70+/-2°C	45	58	150	300	10A	250V	●
TH77	77°C	74+/-2°C	55	62	120	300	10A	250V	●
TH84	84°C	84+/-2°C	60	69	125	300	10A	250V	●
TH94	94°C	94+0/-5°C	66	79	150	300	10A	250V	●
TH99	99°C	99+0/-5°C	71	84	150	300	10A	250V	●
TH105	105°C	104+0/-5°C	80	90	150	300	10A	250V	●
TH110	110°C	110+0/-5°C	88	98	150	300	10A	250V	●
TH113	113°C	110+/-2°C	88	98	150	400	10A	250V	●
TH121	121°C	121+0/-5°C	94	106	150	400	10A	250V	●
TH128	128°C	128+0/-5°C	106	113	155	400	10A	250V	●
TH133	133°C	131+/-2°C	104	119	159	400	10A	250V	●
TH142	142°C	142+0/-5°C	114	127	159	400	10A	250V	●
TH152	152°C	152+0/-5°C	128	137	176	400	10A	250V	●
TH157	157°C	155+/-2°C	127	142	172	400	10A	250V	●
TH167	167°C	167+0/-5°C	146	152	190	400	10A	250V	●
TH172	172°C	170+/-2°C	144	157	189	400	10A	250V	●
TH184	184°C	182+/-2°C	160	169	214	400	10A	250V	●
TH192	192°C	189+/-2°C	164	177	300	400	10A	250V	●
TH216	216°C	216+0/-5°C	189	191	350	450	10A	250V	●
TH228	228°C	226+/-2°C	190	201	300	450	10A	250V	●
TH240	240°C	240+0/-5°C	190	201	350	450	10A	250V	●
TH257	257°C	257+0/-5°C	220	220	470	470	10A	250V	●

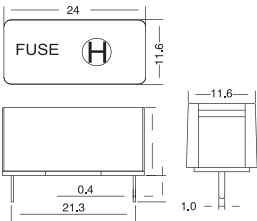
FUSE BLOCK & FUSE CLIP

HF-003(RoHS)
FUSE BLOCK FOR 5x20MM FUSE WITH TRANSPARENT COVER

Unitmm

HF-003/C (RoHS)
FUSE BLOCK FOR 5x20MM FUSE WITH COVER

Unitmm



HF-003/A (RoHS)
FUSE BLOCK FOR 5x20MM FUSE

Unitmm

HF-003/B (RoHS)
FUSE BLOCK FOR 5x20MM FUSE WITHOUT COVER

Unitmm

HF-003B/C (RoHS)
FUSE BLOCK FOR 5x20MM FUSE WITH COVER

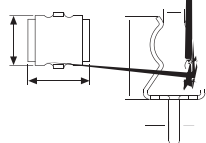
Unitmm

FUSE BLOCK & FUSE CLIP

HF-004/J (RoHS)

FUSE CLIP FOR 5X20MM FUSE
NICKEL PLATED OR TIN PLATED

Unit mm



HF-004/P (RoHS)

FUSE CLIP FOR 5x20MM FUSE
PHOSPHOR BRONZE, TIN PLATED

Unit mm

HF-004/PT (RoHS)

FUSE CLIP FOR 5x20MM FUSE, TAPED TYPE
PHOSPHOR BRONZE, TIN PLATED

Unit mm

HF-004/HT (RoHS)

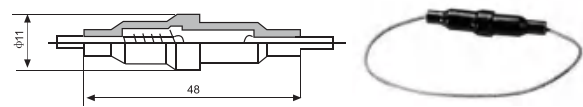
FUSE CLIP FOR 5x20MM FUSE, TAPED TYPE
PHOSPHOR BRONZE, TIN PLATED

Unit mm

FUSE BLOCK

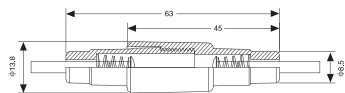
HF-011
INLINE FUSE HOLDER FOR 5x20MM FUSE
WITH 180MM WIRE

Unit mm



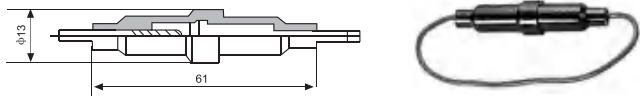
HF-011/I
INLINE FUSE HOLDER FOR 5x20MM & 6x32MM
FUSE (UL APPROVED MATERIALS)

Unit mm



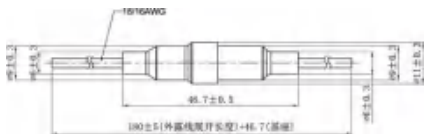
HF-012
INLINE FUSE HOLDER FOR 6x32MM FUSE
WITH 180MM WIRE

Unit mm



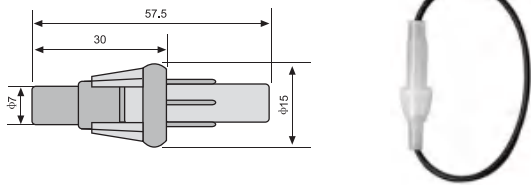
FH1-208H 
INLINE FUSE HOLDER FOR 5x20MM FUSE
WITH 180MM LEAD WIRE

Unit mm



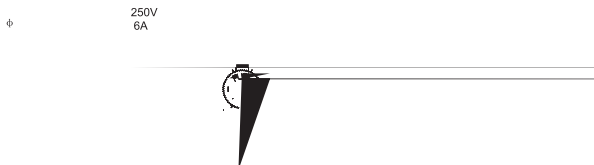
HF-014
INLINE FUSE HOLDER FOR 6x32MM FUSE
WITH 180MM LEAD WIRE

Unit mm



HF-102 (RoHS)
FUSE HOLDER FOR 5x20MM FUSE

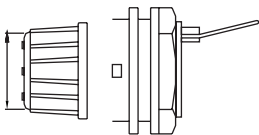
Unit mm



FH SERIES

Unit mm

FH-001AFH



Rating: 15A

Matching Fuse: $\Phi 6.35 \times 31.8$
 $\Phi 6.4 \times 32$

Size of mounting hole

FH-043A



Rating: 10A

Matching Fuse: $\Phi 5.0 \times 20$

Size of mounting hole

FH-B02 (ROHS)

Rating: 10A(UL\CSA\VDE\KC)
6.3A-semko

Matching Fuse: $\Phi 5.2 \times 20$

Size of mounting hole

FUSE BLOCK

Unitmm

FH-B12

Rating: 10A (UL\CSA\VDE)
6.3A-semko

Matching Fuse: Φ 5.2x20

Thickness of mounting board: 0.8/1.0/1.2
1.6/2.0

UR/SEMKO/CSA/VDE Approval

SNAP-IN MOUNTING TYPE

FH-B13HA

Rating: 10A

Matching Fuse: Φ 5.2x20

UR/CSA/VDE Approval

* Vertical type available

FH-B13VA

Rating: 10A

Matching Fuse: Φ 5.2x20

UR/CSA/VDE Approval

* Vertical type available

11

12



Tel:

E-m

R

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Proo

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