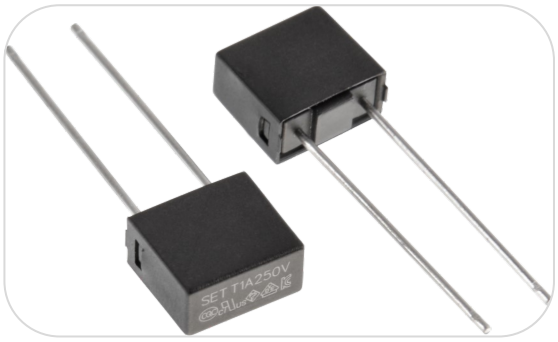
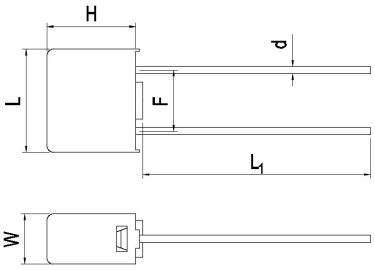
Miniature Fuses

Sub-miniature Fuse-links (SFL)

SPT478 Series, Time-Lag, Plastic Case



Dimensions (mm)



L	L_1	W
8.4 ± 0.5	18.5 ± 1.0	4.1 ± 0.3

H	d	F
7.35 ± 0.50	0.60 ± 0.05	5.08 ± 0.20

Description

Sub-miniature fuse, Time-Lag, Plastic Case, designed to IEC, GB/T and UL standards.

Features

- Miniature Size
- Time-Lag
- Withstand Surge Current
- Designed to IEC 60127-3 Sheet 4 / GB/T 9364.3 Sheet 4 / UL 248-14 / IEC 60127-7 / GB/T 9364.7
- Lead-free (Pb-free)
- RoHS and REACH Compliant

Applications

- Power Supply
- Household Appliance
- General Lighting
- Smart Home
- Office Equipment
- Electric Tool
- Medical Equipment
- SPD

Agency Approvals

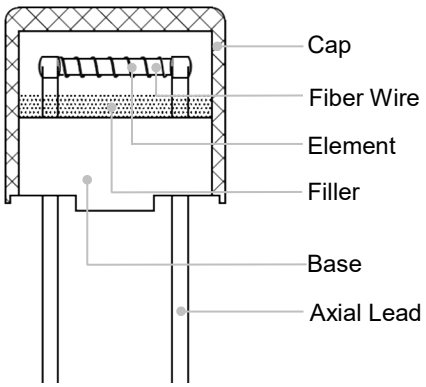
Agency Symbol	The file No. and certification No. obtained by SETsafe|SETfuse	Ampere Range
c UL us	E345932	0.1 A ~ 10 A
VDE	40049409	0.1 A ~ 10 A
PSE	PSE18021398 PSE18021397	1 A ~ 5 A 6.3 A ~ 10 A
CCC	2020980207000070	0.1 A ~ 10 A
KC	SU05023-18002 SU05023-18005 SU05023-18001 SU05023-18003 SU05023-18004	0.1 A 0.125 A ~ 0.8 A 1 A ~ 2.5 A 3.15 A ~ 6.3 A 8 A ~ 10 A
IEC	IEC 60127-3 IEC 60127-7	0.1 A ~ 10 A 12.5 A ~ 20 A

Part Numbering System

SPT478 T1.25A250VT-001

- **Other Options**
- **Packaging**
  T: Taping
  B: Bulk
- **Rated Voltage**
- **Rated Current**
- **Pre-Arcing Time/Current Characteristic**
  T: Time-Lag
- **Product Series**

Structure Diagram



Time/Current Characteristic

% of Ampere Rating	Ampere Rating	Opening Time
210%	0.1 A ~ 6.3 A	2 minutes, Max.
	8 A ~ 20 A	5 minutes, Max.
275%	0.1 A ~ 6.3 A	0.4 s ~ 10 s
	8 A ~ 20 A	1 s ~ 20 s
400%	0.1 A ~ 20 A	0.15 s ~ 3 s
1000%	0.1 A ~ 20 A	0.02 s ~ 0.15 s

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Miniature Fuses
Sub-miniature Fuse-links (SFL)

SPT478 Series, Time-Lag, Plastic Case

Specifications

Model	Rated Current	Max. Voltage Drop [a]	Max. Sustained Power Dissipation at 1.5 I_N	Typical Melting I^2t [b]	Agency Approvals						Environmental	
					CCC	VDE	KC	PSE	cURus	TUV	RoHS	REACH
	(A)	(mV)	(mW)	(A^2Sec)	CCC	VDE	KC	PSE	cURus	TUV		
SPT478T100mA	0.1	350	170	0.04	●	●	●	○	●	●	●	●
SPT478T125mA	0.125	300	180	0.07	●	●	●	○	●	●	●	●
SPT478T160mA	0.16	280	190	0.11	●	●	●	○	●	●	●	●
SPT478T200mA	0.2	260	200	0.16	●	●	●	○	●	●	●	●
SPT478T250mA	0.25	240	220	0.29	●	●	●	○	●	●	●	●
SPT478T315mA	0.315	220	250	0.50	●	●	●	○	●	●	●	●
SPT478T400mA	0.4	200	280	0.91	●	●	●	○	●	●	●	●
SPT478T500mA	0.5	190	310	1.5	●	●	●	○	●	●	●	●
SPT478T630mA	0.63	180	360	2.4	●	●	●	○	●	●	●	●
SPT478T800mA	0.8	160	430	3.8	●	●	●	○	●	●	●	●
SPT478T1A	1	140	500	9.0	●	●	●	●	●	●	●	●
SPT478T1.25A	1.25	130	600	13	●	●	●	●	●	●	●	●
SPT478T1.6A	1.6	120	730	18	●	●	●	●	●	●	●	●
SPT478T2A	2	100	870	35	●	●	●	●	●	●	●	●
SPT478T2.5A	2.5	100	1000	49	●	●	●	●	●	●	●	●
SPT478T3.15A	3.15	100	1200	66	●	●	●	●	●	●	●	●
SPT478T4A	4	100	1400	112	●	●	●	●	●	●	●	●
SPT478T5A	5	100	1500	165	●	●	●	●	●	●	●	●
SPT478T6.3A	6.3	100	1650	250	●	●	●	●	●	●	●	●
SPT478T8A	8	80	1800	420	●	●	●	●	●	●	●	●
SPT478T10A	10	75	2000	750	●	●	●	●	●	●	●	●
SPT478T12.5A	12.5	180	4000	1060	○	○	○	○	○	●	●	●
SPT478T15A	15	140	4000	1440	○	○	○	○	○	●	●	●
SPT478T16A	16	140	4000	1480	○	○	○	○	○	●	●	●
SPT478T20A	20	100	4000	2600	○	○	○	○	○	●	●	●

Remark: a: Max. Voltage Drop (voltage drop is measured at (23 ± 1) °C ambient temp. at rated current).

b: I^2t value is measured at 10 I_N. ○: Pending. RoHS & REACH Compliant. Breaking Capacity:

CCC / VDE / PSE / KC: 35 A @ 250 VAC or 10 I_N @ 250 VAC whichever is greater

UL / cUL: 150 A @ 125 VAC / 250 VAC / 300 VAC / 350 VAC / 400 VAC

TUV: 35 A @ 250 VAC / 300 VAC or 10 I_N @ 250 VAC / 300 VAC whichever is greater .

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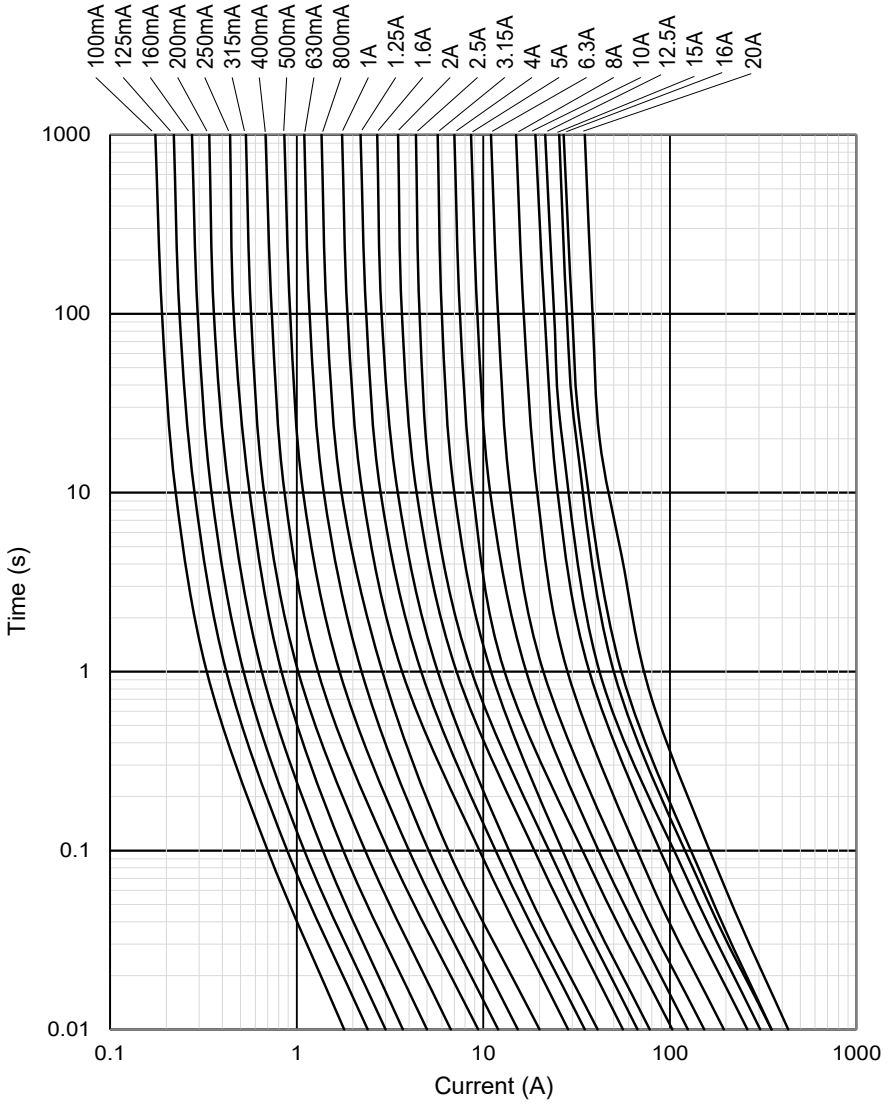
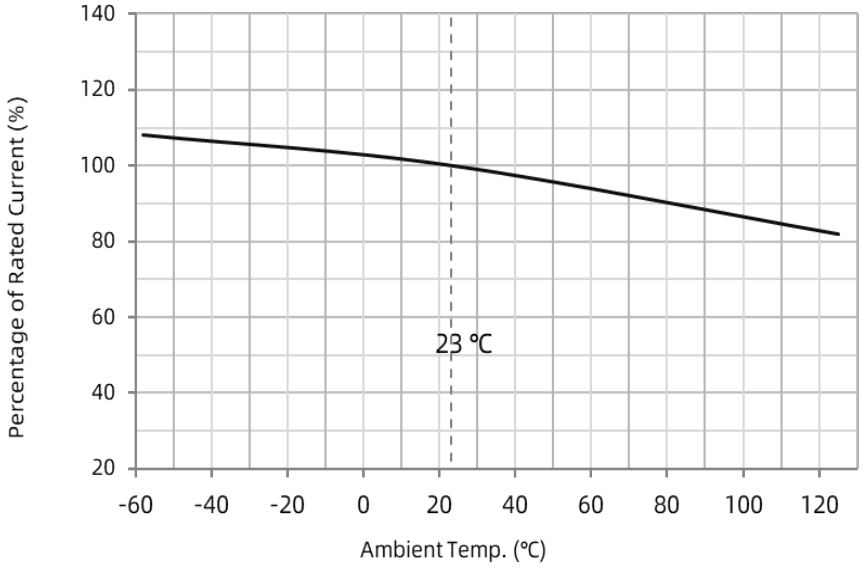
Time Current Curve (For Reference Only)



Rated Current Derating Curve（For Reference Only）



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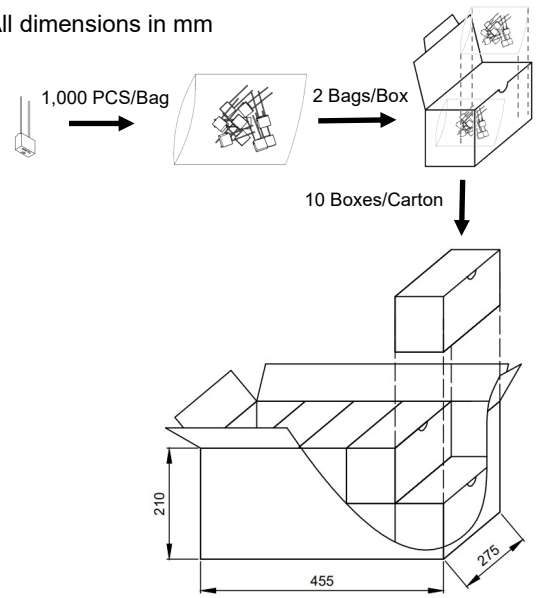
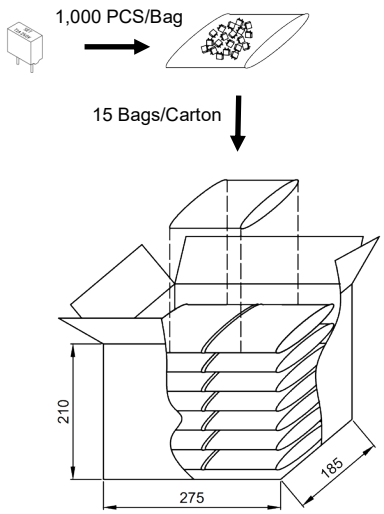
Packaging Information

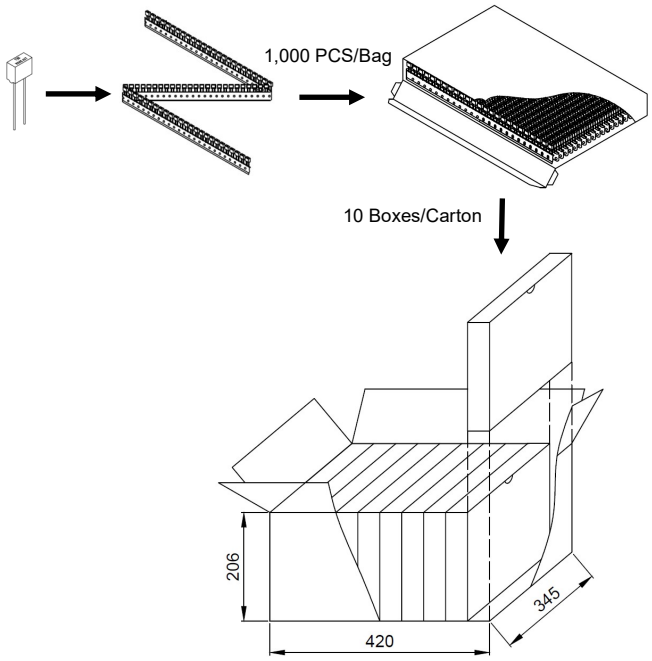
All dimensions in mm

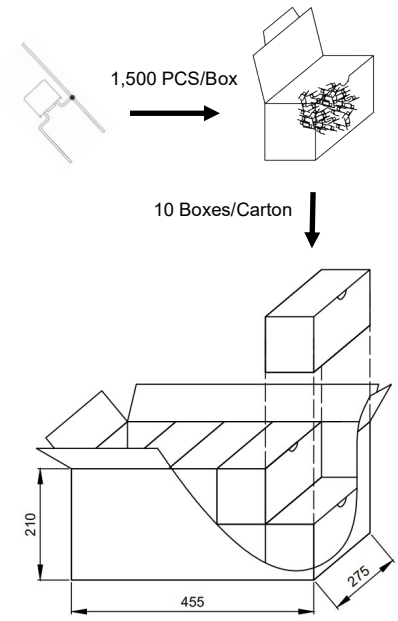




Long Leads ≥ 18.5 mm (Bulk)			
Item	**PE Bag**	**Box**	**Carton**
Q'ty (PCS)	1,000	2,000	20,000
Gross Weight (kg)		7.6 ± 10%	

Short Leads ≤ 6.0 mm (Bulk)		
Item	**PE Bag**	**Carton**
Q'ty (PCS)	1,000	15,000
Gross Weight (kg)		4.6 ± 10%





Taping Type		
Item	**Box**	**Carton**
Q'ty (PCS)	1,000	10,000
Gross Weight (kg)		6.0 ± 10%

Three Leads Type (Bulk)		
Item	**Box**	**Carton**
Q'ty (PCS)	1,500	15,000
Gross Weight (kg)		7.8 ± 10%

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ATTENTION

Inspection

Cold Resistance Test

a. Applied current shall be less than 10% of rated current, at ambient Temp. of (23±2) °C.

b. 4-Wire Resistance Measurement.

Usage

a. Do not touch the fuse body or lead wire when power on, avoiding scald or electric shock.

b. The air pressure is 80 kPa to 106 kPa, corresponding to the altitude of +2000 m to -500 m.

Replacement

For safety reasons, the Fuse is a non-resettable product, please ensure that the alternative Fuse is the same type when replace it.

Storage

Fuse storage should avoid high temperature, high humidity, direct sunlight, and corrosive gases, so as not to affect the solderability of the lead wire. Please use them up within 1 year after receiving the goods.

Installation

Do not apply mechanical stress to the fuse body during or after the installation.

Installation Position

Do not install the fuse on an assembly that may often subject to severe continuous vibration or with corrosive gases (NH_3, SO_2, Cl_2 etc.).

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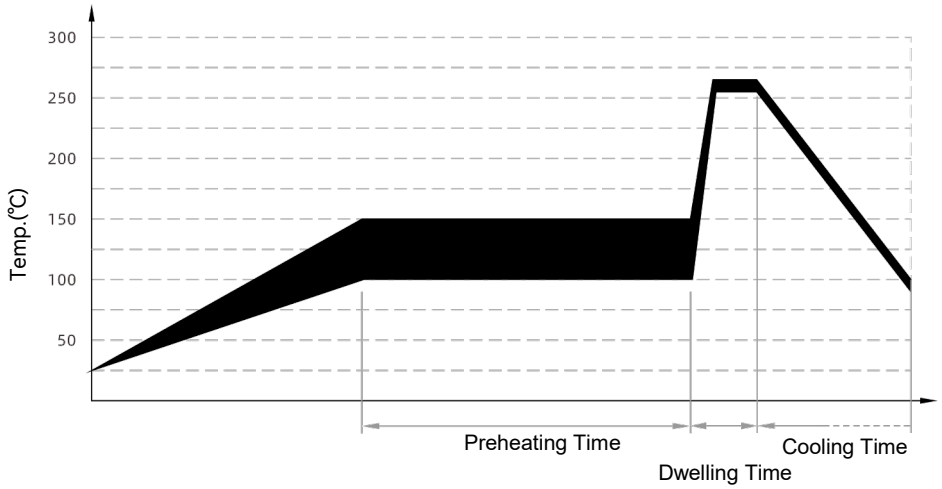
Soldering Parameters

Wave soldering Parameters (For Reference Only)



Item	Temp. (°C)	Time (second)
Preheating	100 ~ 150	60 ~ 180
Dwelling	255 ~ 265	4 ~ 8

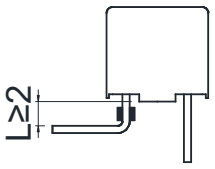
Recommended Soldering Parameters

Solder Iron Temp.: (350 ± 5)°C

Soldering Time: 5 seconds, Max.

Lead Wire Bending

If the lead wire has to be bent, please pay attention to the distance between body and the bending point. Refer to the following table.

Radial Type	
Dimension (mm)	

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Glossary

Item	Description
Fuse	A device, by the fusing of one or more of its specially designed and proportioned components, opens the circuit in which it is inserted by breaking the current when this exceeds a given value for a sufficient time. —(IEC 60127)
Rated Current	The rated current of a fuse identifies its current-carrying capacity based on a controllable set of test conditions. Each fuse is marked with its rated current, this rating can be identified with a numeric, alpha, or color code mark. —(IEC 60127)
Rated Voltage	A Max. open circuit voltage in which a fuse can be used, yet safely interrupt an overcurrent. Exceeding the voltage rating of a fuse impairs its ability to clear an overload or short circuit safely. —(IEC 60127)
Ampere Squared Seconds I^2t	The melting, arcing, or clearing integral of a fuse, termed I^2t, is the thermal energy required to melt, arc, or clear a specific current. It can be expressed as melting I^2t, arcing I^2t or the sum of them, clearing I^2t. —(IEC 60127)
Overload	Can be classified as an overcurrent which exceeds the normal full load current of a circuit by 2 to 5 times its magnitude and stays within the normal current path. —(UL 248)
Overcurrent	A condition which exists in an electrical circuit when the normal load current is exceeded. Overcurrent take on two separate characteristics-overloads and short circuits. —(UL 248)
Short Circuit	An overcurrent that leaves the normal current path and greatly exceeds the normal full load current of the circuit by a factor of tens, hundreds, or thousands times. —(UL 248)
Breaking Capacity of a Fuse-link	Value (r.m.s. for AC) of prospective current that a fuse-link is capable of breaking at a stated voltage under prescribed conditions of use and behaviour. —(IEC 60127)

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Reliability Test

No.	Items	Inspection Standards	Standards
1	High Temp. Test	Test Condition: Temperature: (105 ± 2) °C Time: 1000 hours Test Requirement: After the test, the voltage drop shall not have changed by more than 10% of the value measured before the test. The clearing time of the fuse shall be in range.	MIL-STD-202(Test Method 108) GJB360B(Test Method 108)
2	High Humidity Test	Test Condition: Temperature: (40 ± 2) °C Humidity: 90% to 95% Time: 96 hours Test Requirement: After the test, the voltage drop shall not have changed by more than 10 % of the value measured before the test. The clearing time of the fuse shall be in range.	MIL-STD-202(Test Method 103) GJB360B(Test Method 103)
3	Thermal Shock Test	Test Condition: Per Cycle: -55 °C / 30 minutes, 125 °C / 30 minutes Time: 100 Cycles Test Requirement: After the test, the voltage drop shall not have changed by more than 10 % of the value measured before the test. The clearing time of the fuse shall be in range.	MIL-STD-202(Test Method 107) GJB360B(Test Method 107)

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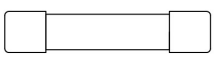
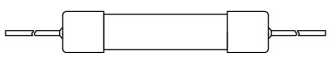
Cartridge Fuse-links (CFL) Features & Model List Overview

额定电流 Rated Current I_n (A)	Model			
50.00	○	○	○	○
40.00	○	○	○	○
30.00	SCF632A30A	SCF632AP30A	SCF63230A	SCF632P30A
25.00	SCF632A25A	SCF632AP25A	SCF63225A	SCF632P25A
21.00	○	○	SCF63221A	SCF632P21A
20.00	SCF632A20A	SCF632AP20A	SCF63220A	SCF632P20A
16.00	SCF632A16A	SCF632AP16A	SCF63216A	SCF632P16A
15.00	SCF632A15A	SCF632AP15A	SCF63215A	SCF632P15A
13.00	○	○	○	○
12.50	○	○	SCF63212.5A	SCF632P12.5A
12.00	○	○	SCF63212A	SCF632P12A
10.00	○	○	SCF63210A	SCF632P10A
8.00	○	○	SCF6328A	SCF632P8A
7.00	○	○	○	○
6.30	○	○	SCF6326.3A	SCF632P6.3A
6.00	○	○	SCF6326A	SCF632P6A
5.00	○	○	SCF6325A	SCF632P5A
4.00	○	○	SCF6324A	SCF632P4A
3.15	○	○	SCF6323.15A	SCF632P3.15A
3.00	○	○	○	○
2.50	○	○	SCF6322.5A	SCF632P2.5A
2.00	○	○	SCF6322A	SCF632P2A
1.60	○	○	SCF6321.6A	SCF632P1.6A
1.25	○	○	SCF6321.25A	SCF632P1.25A
1.00	○	○	SCF6321A	SCF632P1A
0.80	○	○	○	○
0.63	○	○	○	○
0.50	○	○	○	○
0.40	○	○	○	○
0.315	○	○	○	○
0.25	○	○	○	○
0.20	○	○	○	○
0.16	○	○	○	○
0.125	○	○	○	○
0.10	○	○	○	○
U_r Rated Voltage (VAC) (VDC)	(250 ~ 500) VAC (250 ~ 600) VDC		(250 ~ 600) VAC (250 ~ 600) VDC	
Time Feature	/		/	
Tube Material	Ceramic			
Standards	IEC / UL			
Breaking Capacity	10 kA ~ 30 kA		1000 A ~ 50 kA	
Physical Size (mm)	Φ6.35 × 31.8			
Product Structure				

Remark: Please refer to each product series specification page for complete models

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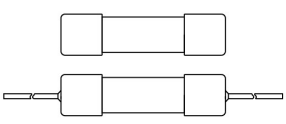
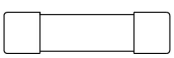
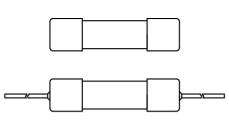
Cartridge Fuse-links (CFL) Features & Model List Overview

Rated Current I_n (A)	Model				
50.00	SCF625F50A	SCF625PF50A	○	○	○
40.00	SCF625F40A	SCF625PF40A	○	○	○
30.00	SCF625F30A	SCF625PF30A	○	○	○
25.00	SCF625F25A	SCF625PF25A	○	○	○
21.00	○	○	○	○	○
20.00	SCF625F20A	SCF625PF20A	○	SGF520-20A (-L)	SGT520-20A (-L)
16.00	SCF625F16A	SCF625PF16A	○	SGF520-16A (-L)	SGT520-16A (-L)
15.00	SCF625F15A	SCF625PF15A	○	SGF520-15A (-L)	SGT520-15A (-L)
13.00	○	○	SC625FM13A	○	○
12.50	SCF625F12.5A	SCF625PF12.5A	○	SGF520-12.5A (-L)	SGT520-12.5A (-L)
12.00	SCF625F12A	SCF625PF12A	○	SGF520-12A (-L)	SGT520-12A (-L)
10.00	SCF625F10A	SCF625PF10A	SC625FM10A	SGF520-10A (-L)	SGT520-10A (-L)
8.00	SCF625F8A	SCF625PF8A	○	SGF520-8A (-L)	SGT520-8A (-L)
7.00	○	○	SC625FM7A	○	○
6.30	SCF625F6.3A	SCF625PF6.3A	○	SGF520-6.3A (-L)	SGT520-6.3A (-L)
6.00	SCF625F6A	SCF632PF6A	○	○	○
5.00	SCF625F5A	SCF625PF5A	SC625FM5A	SGF520-5A (-L)	SGT520-5A (-L)
4.00	○	○	○	SGF520-4A (-L)	SGT520-4A (-L)
3.15	○	○	○	SGF520-3.15A (-L)	SGT520-3.15A (-L)
3.00	○	○	SC625FM3A	○	○
2.50	○	○	○	SGF520-2.5A (-L)	SGT520-2.5A (-L)
2.00	○	○	○	SGF520-2A (-L)	SGT520-2A (-L)
1.60	○	○	○	SGF520-1.6A (-L)	SGT520-1.6A (-L)
1.25	○	○	○	SGF5201.25A (-L)	SGT520-1.25A (-L)
1.00	○	○	○	SGF520-1A (-L)	SGT520-1A (-L)
0.80	○	○	○	SGF520-800mA (-L)	SGT520-800mA (-L)
0.63	○	○	○	SGF520-630mA (-L)	SGT520-630mA (-L)
0.50	○	○	○	SGF520-500mA (-L)	SGT520-500mA (-L)
0.40	○	○	○	○	○
0.315	○	○	○	○	○
0.25	○	○	○	○	○
0.20	○	○	○	○	○
0.16	○	○	○	○	○
0.125	○	○	○	○	○
0.10	○	○	○	○	○
U_r Rated Voltage (VAC) (VDC)	250 VAC (75 ~ 400) VDC		264 VAC	250 VAC	
Time Feature	Fast Acting		Medium-Acting	Fast Acting	Time-Lag
Tube Material	Ceramic		Ceramic	Glass	
Standards	UL		IEC / BS	IEC / UL	
Breaking Capacity	300 A ~ 10 kA		6 kA	35 A ~ 200 A	
Physical Size (mm)	Φ6.35 × 25.4		Φ6.35 × 25.4	Φ5 × 20	
Product Structure					

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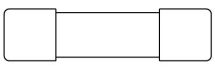
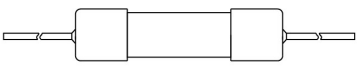
Miniature Fuses
Sub-miniature Fuse-links (SFL)

SPT478 Series, Time-Lag, Plastic Case

Cartridge Fuse-links (CFL) Features & Model List Overview

Rated Current I_n (A)	Model			
50.00	○	○	○	○
40.00	○	○	○	○
30.00	○	○	SCT520T30A	SCT520PT30A
25.00	SCF520F25A	SCF520PF25A	SCT520T25A	SCT520PT25A
21.00	○	○	○	○
20.00	SCF520F20A	SCF520PF20A	SCT520T20A	SCT520PT20A
16.00	SCF520F16A	SCF520PF16A	SCT520T16A	SCT520PT16A
15.00	SCF520F15A	SCF520PF15A	SCT520T15A	SCT520PT15A
13.00	○	○	○	○
12.50	SCF520F12.5A	SCF520PF12.5A	SCT520T12.5A	SCT520PT12.5A
12.00	SCF520F12A	SCF520PF12A	SCT520T12A	SCT520PT12A
10.00	SCF520F10A	SCF520PF10A	SCT520T10A	SCT520PT10A
8.00	SCF520F8A	SCF520PF8A	SCT520T8A	SCT520PT8A
7.00	○	○	○	○
6.30	SCF520F6.3A	SCF520PF6.3A	SCT520T6.3A	SCT520PT6.3A
6.00	○	○	○	○
5.00	SCF520F5A	SCF520PF5A	SCT520T5A	SCT520PT5A
4.00	SCF520F4A	SCF520PF4A	SCT520T4A	SCT520PT4A
3.15	SCF520F3.15A	SCF520PF3.15A	SCT520T3.15A	SCT520PT3.15A
3.00	SCF520F3A	SCF520PF3A	SCT520T3A	SCT520PT3A
2.50	SCF520F2.5A	SCF520PF2.5A	SCT520T2.5A	SCT520PT2.5A
2.00	SCF520F2A	SCF520PF2A	SCT520T2A	SCT520PT2A
1.60	SCF520F1.6A	SCF520PF1.6A	SCT520T1.6A	SCT520PT1.6A
1.25	SCF520F1.25A	SCF520PF1.25A	SCT520T1.25A	SCT520PT1.25A
1.00	SCF520F1A	SCF520PF1A	SCT520T1A	SCT520PT1A
0.80	SCF520F800mA	SCF520PF800mA	SCT520T800mA	SCT520PT800mA
0.63	SCF520F630mA	SCF520PF630mA	SCT520T630mA	SCT520PT630mA
0.50	SCF520F500mA	SCF520PF500mA	SCT520T500mA	SCT520PT500mA
0.40	SCF520F400mA	SCF520PF400mA	SCT520T400mA	SCT520PT400mA
0.315	○	○	○	○
0.25	○	○	○	○
0.20	○	○	○	○
0.16	○	○	○	○
0.125	○	○	○	○
0.10	○	○	○	○
U_r Rated Voltage (VAC) (VDC)	(125 ~ 600) VAC (125 ~ 600) VDC		(125 ~ 500) VAC (125 ~ 500) VDC	
Time Feature	Fast Acting		Time-Lag	
Tube Material	Ceramic			
Standards	IEC / UL			
Breaking Capacity	200 A ~ 5 kA		200 A ~ 10 kA	
Physical Size (mm)	Φ5 × 20			
Product Structure				

Remark: Please refer to each product series specification page for complete models

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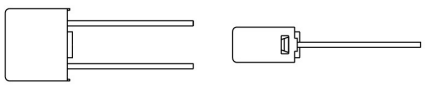
Sub-miniature Fuse-links (SFL) Feature & Model List Overview

Rated Current I_n (A)	SPF478 Series, Fast Acting	SPT478 Series, Time-Lag
50.00	○	○
40.00	○	○
30.00	○	○
25.00	○	○
21.00	○	○
20.00	○	SPT478T20A
16.00	○	SPT478T16A
15.00	○	SPT478T15A
13.00	○	○
12.50	○	SPT478T12.5A
12.00	○	○
10.00	SPF478F10A	SPT478T10A
8.00	SPF478F8A	SPT478T8A
7.00	○	○
6.30	SPF478F6.3A	SPT478T6.3A
6.00	○	○
5.00	SPF478F5A	SPT478T5A
4.00	SPF478F4A	SPT478T4A
3.15	SPF478F3.15A	SPT478T3.15A
3.00	○	○
2.50	SPF478F2.5A	SPT478T2.5A
2.00	SPF478F2A	SPT478T2A
1.60	SPF478F1.6A	SPT478T1.6A
1.25	SPF478F1.25A	SPT478T1.25A
1.00	SPF478F1A	SPT478T1A
0.80	○	SPT478T800mA
0.63	○	SPT478T630mA
0.50	○	SPT478T500mA
0.40	○	SPT478T400mA
0.315	○	SPT478T315mA
0.25	○	SPT478T250mA
0.20	○	SPT478T200mA
0.16	○	SPT478T160mA
0.125	○	SPT478T125mA
0.10	○	SPT478T100mA
U_r Rated Voltage (VAC) (VDC)	(125 ~ 400) VAC	
Time Feature	Fast Acting	Time-Lag
Tube Material	Plastic Case	
Standards	IEC / UL	
Breaking Capacity	35 A ~ 200 A	
Physical Size (mm)	4 × 7 × 8	
Product Structure		

Model

Remark: Please refer to each product series specification page for complete models

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Miniature Fuses

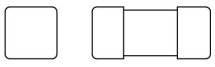
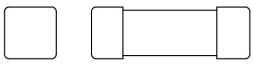
Sub-miniature Fuse-links (SFL)

SPT478 Series, Time-Lag, Plastic Case

Surface Mount Fuse-lingks (SMFL) Feature & Model List Overview

Rated Current I_n (A)	Model			
50.00	○	○	○	○
40.00	○	○	SCF1032F40A	○
30.00	○	○	SCF1032F30A	○
25.00	○	○	SCF1032F25A	○
21.00	○	○	○	○
20.00	SCF6125F20A	○	SCF1032F20A	○
16.00	SCF6125F16A	○	SCF1032F16A	○
15.00	SCF6125F15A	○	SCF1032F15A	SCT1032T15A
13.00	○	○	○	○
12.50	SCF6125F12.5A	SCT6125T12.5A	SCF1032F12.5A	SCT1032T12.5A
12.00	SCF6125F12A	SCT6125T12A	SCF1032F12A	SCT1032T12A
10.00	SCF6125F10A	SCT6125T10A	SCF1032F10A	SCT1032T10A
8.00	SCF6125F8A	SCT6125T8A	SCF1032F8A	SCT1032T8A
7.00	○	○	○	○
6.30	SCF6125F6.3A	SCT6125T6.3A	SCF1032F6.3A	SCT1032T6.3A
6.00	○	○	○	○
5.00	SCF6125F5A	SCT6125T5A	SCF1032F5A	SCT1032T5A
4.00	SCF6125F4A	SCT6125T4A	SCF1032F4A	SCT1032T4A
3.15	SCF6125F3.15A	SCT6125T3.15A	SCF1032F3.15A	SCT1032T3.15A
3.00	SCF6125F3A	SCT6125T3A	SCF1032F3A	SCT1032T3A
2.50	SCF6125F2.5A	SCT6125T2.5A	SCF1032F2.5A	SCT1032T2.5A
2.00	SCF6125F2A	SCT6125T2A	SCF1032F2A	SCT1032T2A
1.60	SCF6125F1.6A	SCT6125T1.6A	SCF1032F1.6A	SCT1032T1.6A
1.25	○	SCT6125T1.25A	SCF1032F1.25A	SCT1032T1.25A
1.00	○	SCT6125T1A	SCF1032F1A	SCT1032T1A
0.80	○	SCT6125T800mA	○	SCT1032T800mA
0.63	○	SCT6125T630mA	○	SCT1032T630mA
0.50	○	SCT6125T500mA	○	SCT1032T500mA
0.40	○	SCT6125T400mA	○	SCT1032T400mA
0.315	○	SCT6125T315mA	○	SCT1032T315mA
0.25	○	SCT6125T250mA	○	SCT1032T250mA
0.20	○	SCT6125T200mA	○	SCT1032T200mA
0.16	○	○	○	SCT1032T160mA
0.125	○	○	○	SCT1032T125mA
0.10	○	○	○	SCT1032T100mA

Remark: Please refer to each product series specification page for complete models

U_r Rated Voltage (VAC) (VDC)	(125 ~ 350) VAC (24 ~ 125) VDC		(125 ~ 350) VAC (32 ~ 250) VDC	
Time Feature	Fast Acting	Time-Lag	Fast Acting	Time-Lag
Tube Material	Ceramic			
Standards	IEC / UL			
Breaking Capacity	50 A ~ 500 A		100 A ~ 1000 A	
Physical Size (mm)	2.7 × 2.7 × 6.3		3.2 × 3.2 × 10.3	
Product Structure				

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