

Product Specification

Number: L-KLS5-0603-06F-XXXL

Name: SMD Fuse

Customer: _____

Date: 2025-04-09

Customer Signature:



WWW.KLSELE.COM

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**ADD : NO. 8-1, RONGXIA RD. XIAPU SHANQIAN
INDUSTRIAL ZONE BEILUN NINGBO ZHEJIANG.**

Compi	Check	Review	Approva
Jenny	Jack.C		

Part name	SMD Fuse	Date	2025-04-09
Part number	L-KLS5-0603-06F-XXXL	Edition	V1
Department		Page	2/ 4

0.25A~8A 63Vdc/32Vdc

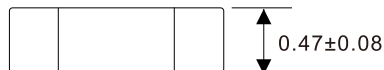
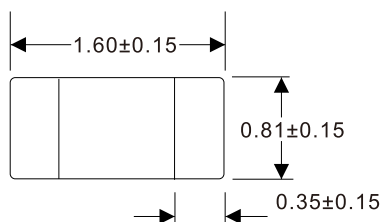
Description

- 1.6x0.81x0.65mm physical size
- Solder-free design
- Designed to UL248-1
- RoHS compliant, Halogen free and Lead-free



Dimensions

(Unit: mm)



Specifications

Part No.	Rated Voltage (Vdc)	Rated Current (A)	Breaking Capacity (A)	Typical Cold Resistance (mOhms)	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec)	Alpha Mark
06F-0250L	63 32	0.25	50A	3100	1435	0.0012	D
06F-0375L		0.375		1600	1250	0.0028	E
06F-0500L		0.5		1000	750	0.005	F
06F-0750L		0.75		440	550	0.015	G
06F-010L		1		257	390	0.02	B
06F-015L		1.5		137	320	0.07	H
06F-020L		2		70.5	220	0.14	K
06F-025L		2.5		52	200	0.25	L
06F-030L		3		34	155	0.30	O
06F-035L		3.5		23	135	0.50	R
06F-040L	32	4	50A	20.5	130	0.80	S
06F-050L		5		13.25	115	1.6	T
06F-060L		6		8.9	100	2.6	V
06F-070L		7		6.95	95	3.3	X
06F-080L		8		5.43	90	4.5	Z

* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 degrees

* Typical Pre-arcing I²t are measured at 10In Current

* For fuse below 1A, the color of glass coating is Blue; for 1A and above, it's Green.

Electrical Characteristics

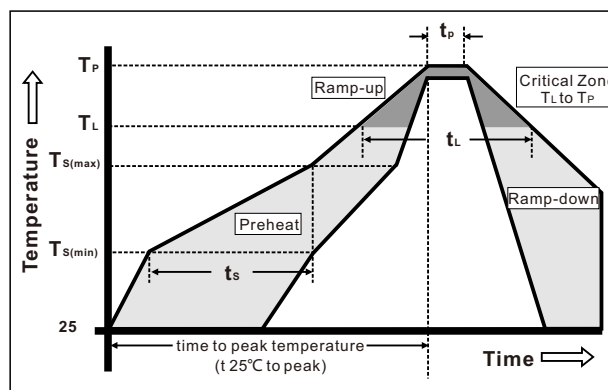
Rated Current	1.0In	2.0In	2.5In	3.5In
250mA~750mA	4.0 hour min	60 sec-max	5.0 sec max	.
1~5A	4.0 hour min	60 sec max	5.0 sec max	.
6~7A	4.0 hour min		5.0 sec max	.
8A	4.0 hour min	-	5.0 sec max	.

0.25A~8A 63Vdc/32Vdc

Installation Recommendations

1 Wave Soldering Parameters

Reflow Conditon		Pb-free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (Min to Max) (t_s)	60 - 120 seconds
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		3°C/second max.
TS(max) to TL - Ramp-up Rate		5°C/second max.
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Temperature (t_L)	60 - 150 seconds
Peak Temperature (T_P)		260±0/-5°C
Time within 5°C of actual peak Temperature (t_p)		30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes max.
Do not exceed		260°C



Solder Pot Temperature: 260°C max

Solder Dwell Time: 10 Seconds max

2 Hand-Solder Parameters

Solder Iron Temperature: 280±5°C

Heating Time: 5 Seconds min

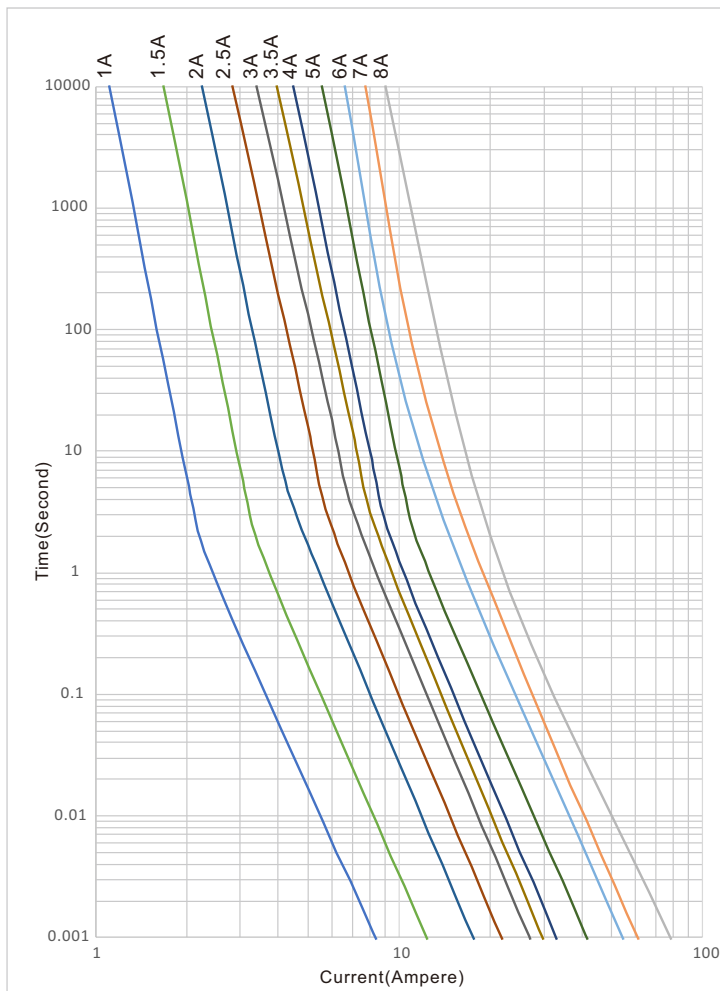
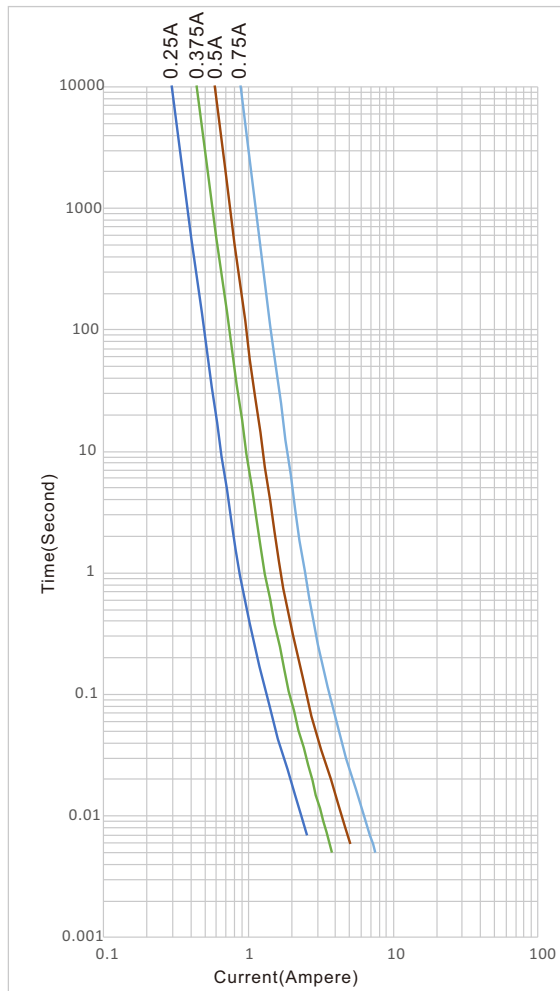
Generally, hand-soldering is not recommended

Product Characteristics

Materials	Body: Ceramic Terminations: Silver over-plated with tin Element: Alloy(Ag,Cu,Zn) Cover Coat: Glass
Operatng Temperature	-55°C to 125°C Consult temperature rerating curve chart.
Thermal Shock	300 cycles -55°C to 125°C
Humidity	MIL-STD-202F, Method 103B, Condition D
Vibraton	Per MIL-STD-202F, Method 201A
Insulaton Resistance (Afer Opening)	Greater than 10,000 ohms
Resistance to Soldering Heat	MIL-STD-202G, Method 210F, Condition D

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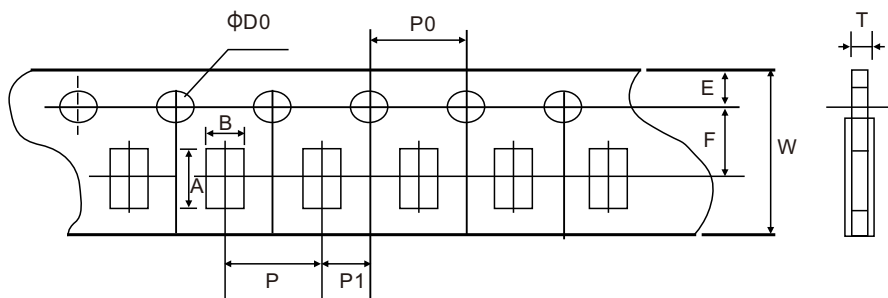
Time Current Curve



Packaging

5,000 pieces of fuses in plastic or paper taper

5000pcs)



Type	A	B	W	F	E
Spec	1.85±0.10	1.10±0.10	8.00±0.10	3.50±0.05	1.75±0.10
Type	P	P0	P1	D0	T
Spec	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.65±0.10

(Unit: mm)