



Accessories

Description

The 400M Series is an 0603 fast acting fuse that is best suited for applications that require relatively low resistance. The part is 100% Lead-free, RoHS compliant, and Halogen-free fuse. It is designed to provide over-current protection to circuits that operate under high operating temperatures of up to 150°C.

Features and Benefits

- Operating temperature from -55°C to 150°C
- 100% Lead-free, RoHS compliant, and Halogenfree
- Suitable for both leaded and lead-free soldering

Applications

Burn-in Test

Electrical Characteristics

% of Ampere Rating	Opening Time at 25°C
100%	4 Hours Minimum
200%	5 Seconds Maximum

Electrical Specifications by Item

Samples

Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating	Nominal Resistance (Ohms) ¹	Nominal Melting l ² t (A ² Sec.) ²	Nominal Voltage Drop at Rated Current (mV)	Nominal Power Dissipation at Rated Current (W)
0.5	0025	5	50A @ 5VDC	0.325	0.00169	189	0.095
1.5	0026	5		0.095	0.03	161	0.242

Notes:

1. Cold resistance measured at less than 10% of rated current at 23°C.

2. I²t values stated for 1msec opening time.

Resources

Additional Information





Temperature Re-rating Curve





Average Time Current Curves

Reflow Condition		Pb – free assembly	
	- Temperature Min (T _{s(min)})	150°C	
Pre Heat	- Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 seconds	
Average Ramp-up Rate (Liquidus Temp (T_L) to peak)		5°C/second max.	
T _{S(max)} to T _L - 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)		20 – 40 seconds	
Ramp-down Rate		5°C/second max.	
Time 25°C to peak Temperature (T _P)		8 minutes max.	
Do not exceed		260°C	

Soldering Parameters



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Product Characteristics

Materials	Body: Advanced Ceramic Terminations: Ag/Ni/Sn (100% Lead-free) Element Cover Coating: Lead-free Glass
Moisture Sensitivity Level	IPC/JEDEC J-STD-020C, Level 1
Solderability	IPC/ECA/JEDEC J-STD-002B, Condition B
Humidity Test	MIL-STD-202, Method 103B, Conditions D
Resistance to Solder Heat	MIL-STD-202, Method 210F, Condition B

Dimensions mm (inches)





0.432 +/- 0.150



Moisture Resistance	MIL-STD-202, Method 106G
Thermal Shock	MIL-STD-202, Method 107,G Condition B-3
Mechanical Shock	MIL-STD-202, Method 213B, Condition A
Vibration	MIL-STD-202, Method 201A
Vibration, High Frequency	MIL-STD-202, Method 204D, Condition D
Dissolution of Metallization	IPC/ECA/JEDEC J-STD-002B, Condition D
Terminal Strength	IEC 60127-4

Part Marking System

Amp Code	Marking Code
0025	F
0026	К





Packaging

Packaging Option	Form Factor	Packaging Specification	Quantity	Quantity & Packaging Code
8mm Tape and Reel	Surface Mount	EIA-481, IEC 60286-3	3000	WR
8mm Tape and Reel	Surface Mount	EIA-481, IEC 60286-3	5000	NR

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