

### 400M Series - 0603 Low Resistance Fast Acting Fuse



#### Description

The 400M Series is an 0603 Fast Acting fuse which offers relatively low resistance best suited for application which requires such. The part is 100% Lead-free, RoHS compliant, and Halogen-free fuses designed to provide over-current protection to circuits that operate under high operating temperatures of up to 150°C.

#### Features

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

#### Applications

- Burn-in Test

#### Electrical Characteristics

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

#### Additional Information



Datashheet



Resources



Samples

#### Electrical Specifications by Item

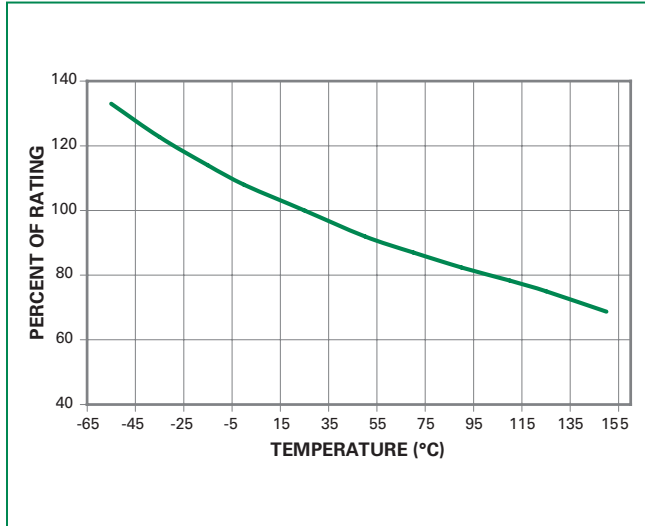
Ampere Rating (A)	Amp Code	Max. Voltage Rating (V)	Interrupting Rating	Nominal Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> Sec.)	Nominal Voltage Drop at Rated Current (mV)	Nominal Power Dissipation at Rated Current (W)
0.5	0025	5	50A @ 5VDC	0.325	0.00169	189	0.095
1.5	0026	5		0.095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

Notes:

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

2. I<sup>2</sup>t values stated for 1msec opening time.

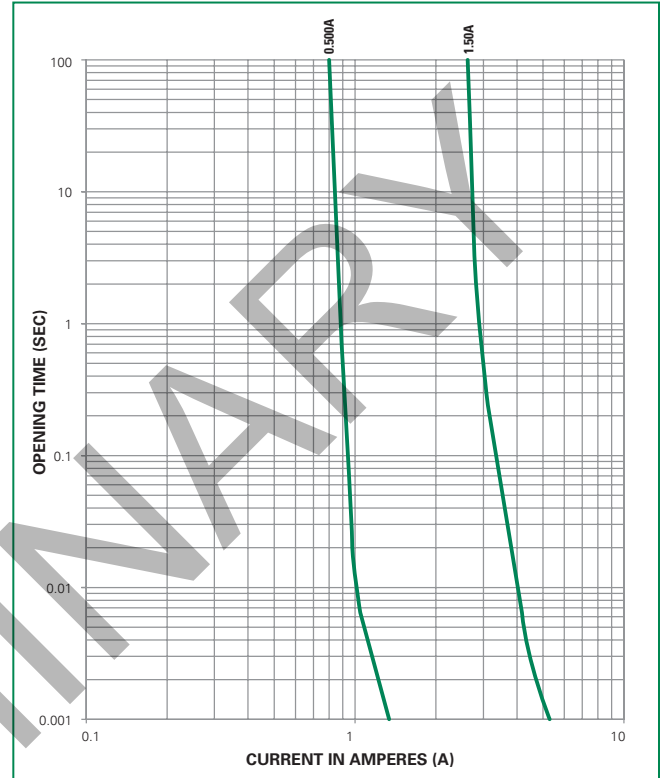
### Temperature Re-rating Curve



Note:

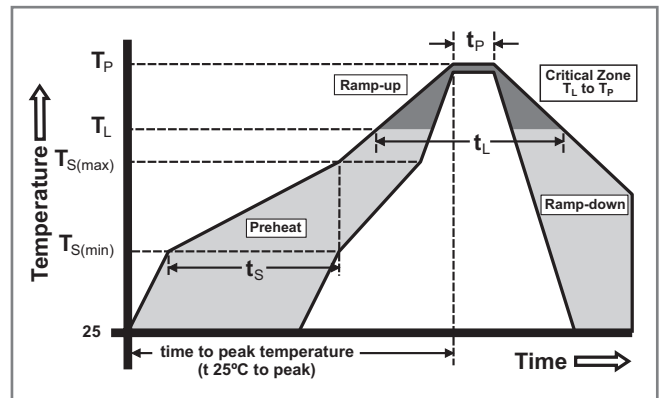
Re-rating depicted in this curve is in addition to the standard re-rating of 20% for continuous operation.

### Average Time Current Curves



### Soldering Parameters

Reflow Condition		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 – 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 <sup>+0/-5</sup> °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

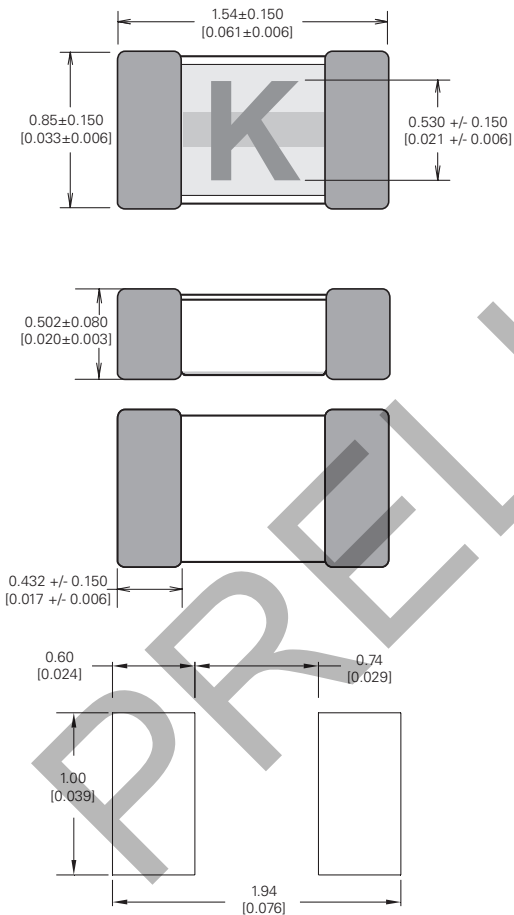


### Product Characteristics

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

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

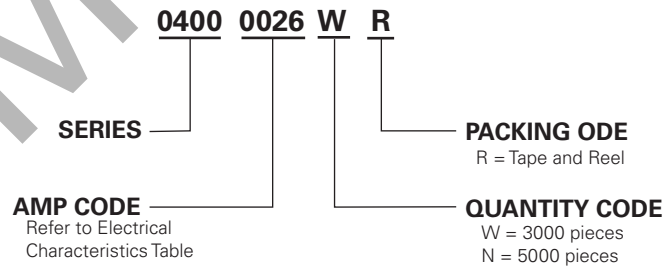
### Dimensions



### Part Marking System

Amp Code	Marking Code
0025	F
0026	K

### Part Numbering System



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### Packaging

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