



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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### 688 Series Lead-Free, 6x25mm Fuse



#### Description

A 70Vdc rated ceramic fuse with remarkable interrupting rating in a compact 6x25mm package, which is well suited for circuit protection in telecom applications.



#### Features

- In accordance with Underwriter's Laboratories Standard UL 248-14
- Available in cartridge version
- RoHS compliant and Lead-free

#### Applications

- PDU in Telecom Datacenter
- Wireless Transmission Base Station

#### Agency Approvals

Agency	Agency File Number	Ampere Range
	T 50257715 01	30A
	E10480	5A - 40A

#### Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
100%	5A - 40A	4 Hours, <b>Min.</b>
200%		120 Second, <b>Max.</b>

#### Additional Information



Datasheet





Resources



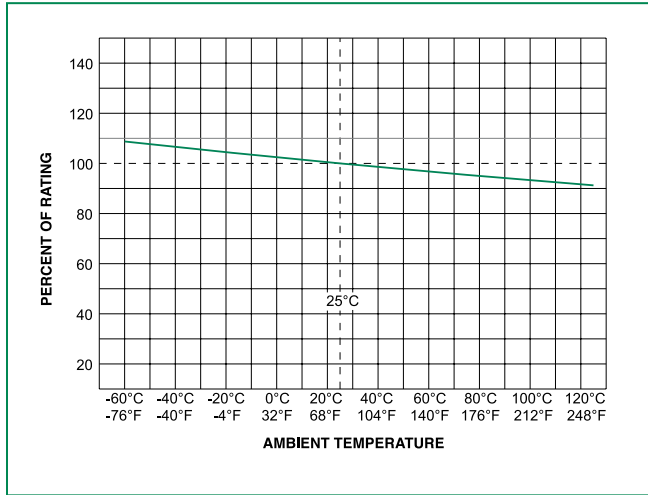
Samples

#### Electrical Characteristic Specifications by Item

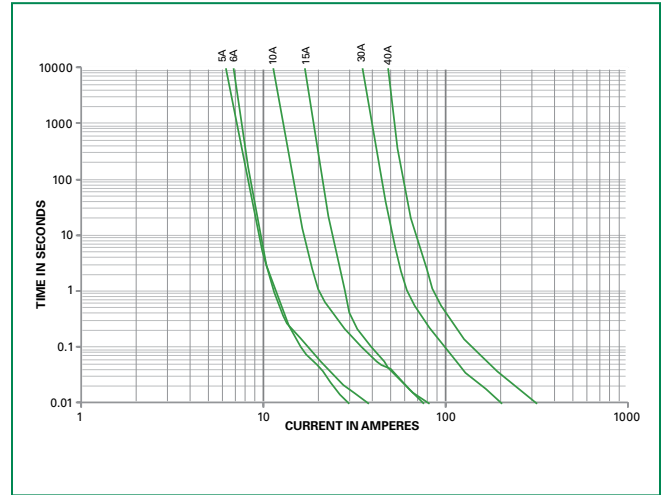
Amp Code	Amp Rating	Voltage Rating	Interrupting Rating	Nominal Cold Resistance (mOhms)	Nominal Melting I <sup>2</sup> t Under 10In (A <sup>2</sup> sec)	Agency Approvals	
							
005.	5	70Vdc	2500A @ 70Vdc	22	118		x
006.	6	70Vdc	2500A @ 70Vdc	21	132		x
010.	10	70Vdc	2500A @ 70Vdc	10	570		x
015.	15	70Vdc	2500A @ 70Vdc	6	554		x
030.*	30	70Vdc	2500A @ 70Vdc	2.1	4200	x	x
040.*	40	70Vdc 250Vac	2500A @ 70Vdc 1500A @ 250Vac	1.55	7800		x

Note: \*Surge rating: 1.2/50-8/20µs, 20KV/10KA surge is available for 30A and 40A.

## Temperature Re-rating Curve

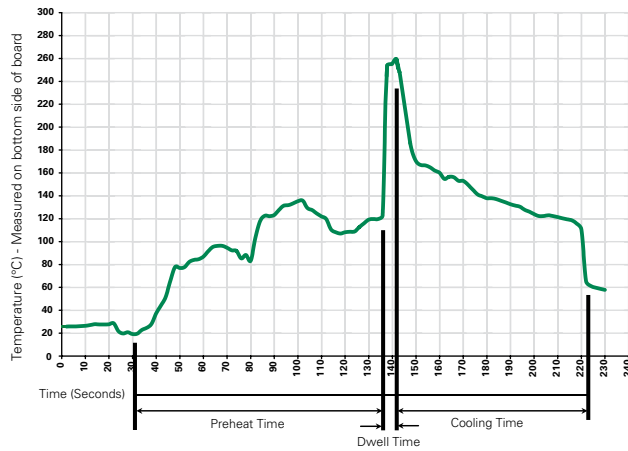


## Average Time Current Curves



Note:  
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

## Soldering Parameters - Wave Soldering



### Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100°C
Temperature Maximum:	150°C
Preheat Time:	60-180 seconds
<b>Solder Pot Temperature:</b>	260°C Maximum
<b>Solder Dwell Time:</b>	2-5 seconds

### Recommended Hand-Solder Parameters:

Solder Iron Temperature: 350°C +/- 5°C  
Heating Time: 5 seconds max.

**Note: These devices are not recommended for IR or Convection Reflow process.**

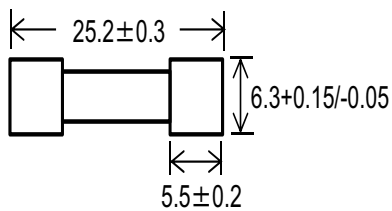
### Product Characteristics

<b>Materials</b>	Body : Ceramic Cap : Tin-plated Copper Leads: Tin-plated Copper
<b>Terminal Strength</b>	MIL-STD-202, Method 211, Test Condition A
<b>Solderability</b>	MIL-STD-202 Method 208
<b>Product Marking</b>	Brand logo, current and voltage ratings, agency approval marks
<b>Packaging</b>	Available in Bulk and Ammo packaging (M=1000 pcs/pkg)

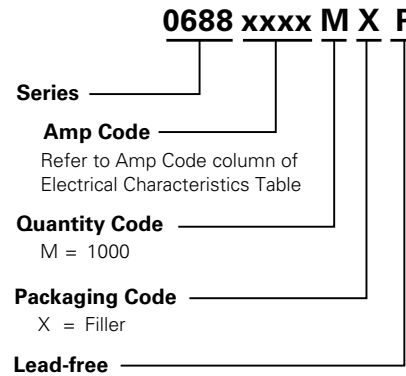
<b>Operating Temperature:</b>	-55°C to 125°C.
<b>Thermal Shock:</b>	MIL-STD-202, Method 107, Test Condition B
<b>Vibration</b>	MIL-STD-202, Method 201
<b>Humidity</b>	MIL-STD-202, Method 103, Test Condition A: High RH (95%) and elevated temp (40°C) for 240 hours
<b>Salt Spray</b>	MIL-STD-202, Method 101, Test Condition B

### Dimensions

Measurements displayed in millimeters



### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>688 Series</b>				
Ammo	N/A	1000	MAT4P	N/A
Bulk	N/A	1000	MX	N/A