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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388 Series Lead-Free 3AG, METI B Fuse

Description

The Littelfuse 388 Series is a 3AG size fuse that solves a broad range of application requirements while offering reliable performance and cost-effective circuit protection.

Features

- Designed to Japanese Standard JIS C6575
- RoHS compliant and Lead-free
- Available in cartridge and axial lead form and various forming demensions

Agency Approvals

Agency	Agency File Number	Ampere Range
PS E	NBK131107-JP1021A NBK010207-JP1021A/B/C/D	1A - 30A
	SU05001-8001 SU05001-7001/2/3/4	3A - 6A 7A/10A - 30A
CE		1A - 30A

Applications

Used as supplementary protection in appliance or utilization equipment to provide individual protection for components or internal circuits.

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
130	1 Hour, Minimum
160	1 hour, Maximum
200	120 seonds, Maximum

Electrical Characteristic Specifications by Item

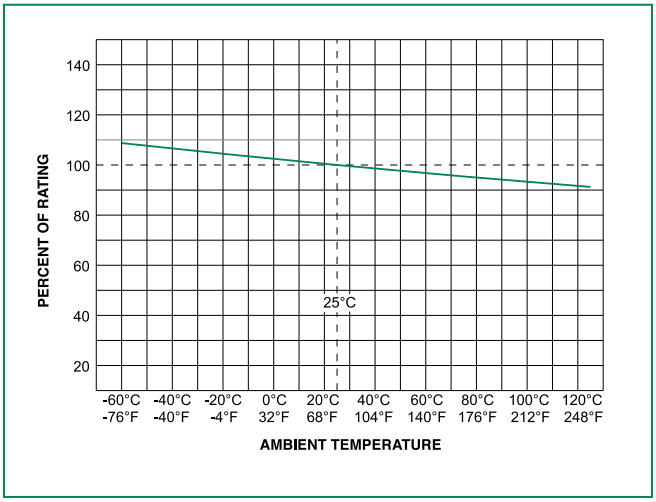
Amp Code	Amp Rating	Voltage Rating	Breaking Capacity	Nominal Resistance Cold Ohms (ohms)	Nominal Melting 2T (A2Sec.)	Agency Approvals		
						PS E		CE
001.	1	250	100A @ 250Vac	0.1651	0.800	x		x
01.5	1.5	250		0.0845	2.680	x		x
002.	2	250		0.0522	7.200	x		x
02.5	2.5	250		0.0375	9.540	x		x
003.	3	250		0.0313	22.10	x	x	x
004.	4	250		0.0239	28.50	x	x	x
005.	5	250		0.0184	66.10	x	x	x
006.	6	250		0.0140	116.0	x	x	x
007.	7	250		0.0127	118.0	x	x	x
008.	8	250		0.0109	166.0	x		x
009.	9	250		0.0082	298.0	x		x
010.	10	250		0.0072	234.6	x	x	x
012.	12	250		0.0052	490.5	x	x	x
015.	15	250		0.0042	1029	x	x	x
020.	20	250		0.0029	2041	x	x	x
025.	25	250		0.0019	3717	x	x	x
030.	30	250		0.0013	7531	x	x	x

[1] Depending on the application and mounting, the fuse heating at max. ambient temperature in a closed fuseholder should be considered.

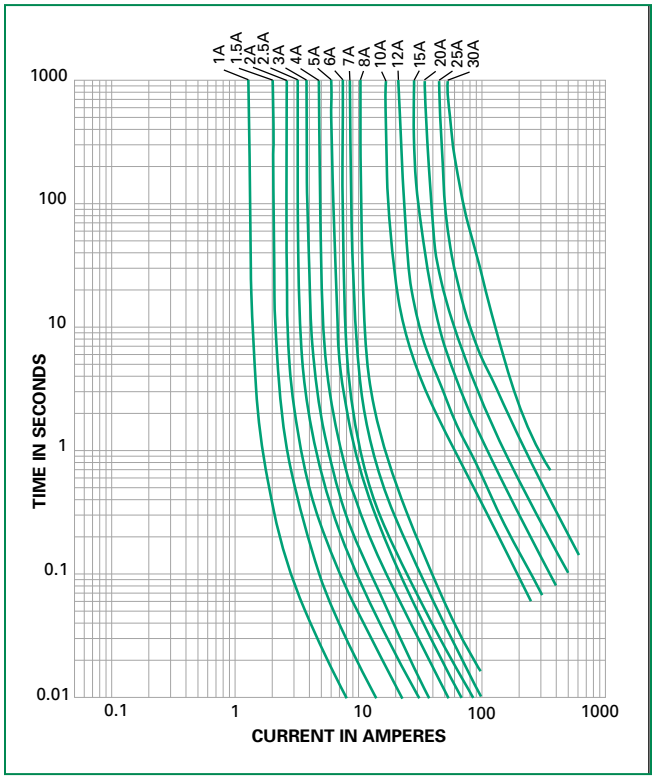
p = pending

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

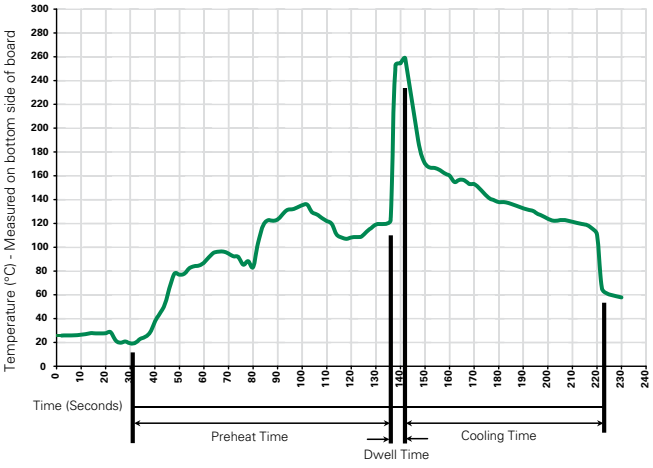
Temperature Rerating Curve



Average Time Current Curves



Soldering Parameters - Wave Soldering



Recommended Process Parameters:

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

Axial Lead & Cartridge Fuses
3AG METI B Fuse 388 Series

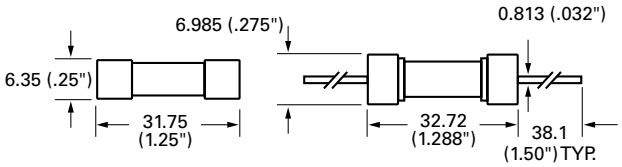
Product Characteristics

Materials	Body: Glass End Caps: Nickel–plated brass Leads: Tin–plated Copper
Terminal Strength	MIL-STD-202G, Method 211A, Test Condition A
Solderability	Reference IEC 60127 Second Edition 2003-2001 Annex A
Product Marking	Cap1: Brand logo, current and voltage ratings Cap2: Series and agency approval marks

Operating Temperature	-55°C to +125°C (consider de-rating)
Thermal Shock	MIL-STD-202G Method 107 G, Test conditon B:(5 cycles - 65°C to 125°C)
Vibration	MIL-STD-202G, Method 201A
Humidity	MIL-STD-202G, Method 103B, Test Condition A: High RH (95%) and Elevated temperature (40°C) for 240 hours
Salt Spray	MIL-STD-202G, Method 101D, Test Condition B

Dimensions (mm)

388 000P **Series** **388** 000EP **Series**



Axial Lead Material: Tin coated copper.

Part Numbering System

0388 xxxx M X E P

Series

Amp Code
Refer to Amp Code column of Electrical Characteristics Table

Quantity Code
M = 1000

Packaging Code
X = Filler

Option Code
E = Axial leaded fuses
Blank = Cartridge fuses

Lead-free

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
388 Series				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A