

2AG > Fast-Acting > 208 Series

# 208 Series Lead-Free 2AG, Fast-Acting Fuse



#### **Agency Approvals**

Agency	Agency File Number	Ampere Range			
c <b>FL</b> <sup>°</sup> us	E10480 0.375A - 10				
	Cartridge				
^	NBK200405-E10480A NBK200405-E10480C NBK110512-E10480A NBK190619-E10480A	1A 1.5A - 3.5A 4A - 5A 6A - 10A			
< PS E	Leaded				
	NBK200405-E10480B NBK200405-E10480D NBK110512-E10480B NBK190619-E10480B	1A 1.5A - 3.5A 4A - 5A 6A - 10A			
Œ	N/A	0.375A - 10A			

#### Description

Littelfuse 208 Series (2AG) 350V Fast-Acting Fuses are available in cartridge form or with axial leads. This series provides the same performance characteristics as its 3AG counterpart, while occupying one-third the space. Sleeved fuses are available.

### Features

- In accordance with Underwriter's Laboratories Standard UL/CSA 248-14
- In accordance with DENAN Appendix 3 for the Japanese Market.
- Available in cartridge and axial lead form and with various lead forming dimensions

ROHS 🕫 c 🔁 us 📀 (E

 RoHS compliant and Lead-free

#### Applications

• Electrical ballasts used in fluorescent lighting and other applications

#### **Electrical Characteristics for Series**

% of Ampere Rating	Opening Time
100%	4 Hours, Min.
135%	1 Hour, Max.
200%	1 Second, Max.



For recommended fuse accessories for this product series, see '<u>Recommended Accessories</u>' section.

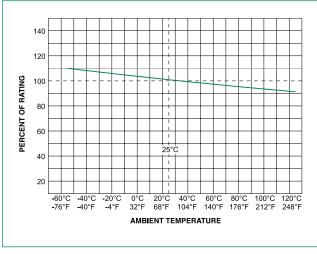


# **Axial Lead & Cartridge Fuses**

2AG > Fast-Acting > 208 Series

Electrical Characteristic Specifications by Item								
			Interrupting	Nominal Cold	Nominal	Agency Approvals		s
Amp Code	Amp Rating	Voltage Rating		Resistance	Melting I²t (A² sec)	c Nus	PSE	CE
.375	0.375	350		0.395	0.171	x		x
.500	0.500	350	-	0.265	0.365	x		х
.750	0.750	350		0.152	1.050	x		x
001.	1.0	350		0.103	2.220	x	х	x
01.5	1.5	350		0.0712	0.800	x	x	x
002.	2.0	350		0.0497	2.169	x	х	х
02.5	2.5	350		0.0372	2.68	x	x	x
003.	3.0	350	100A @ 350V AC	0.0317	4.62	x	х	x
03.5	3.5	350		0.0265	6.70	x	x	x
004.	4	350		0.0240	9.40	x	x	x
005.	5	350		0.0186	17.00	x	x	x
006.	6	350		0.0154	22.10	x	×	x
007.	7	350	-	0.0130	40	x	х	x
008.	8	350		0.0107	56	x	×	x
010.	10	350		0.0075	116	×	x	x

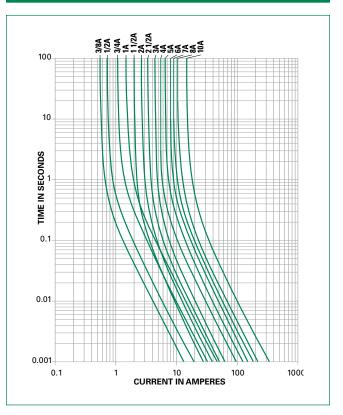
## **Temperature Re-rating Curve**



Note:

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

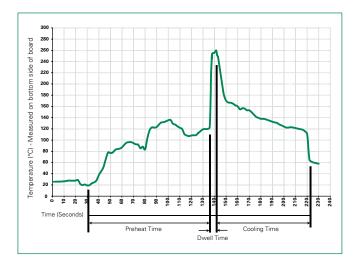
Average Time Current Curves





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# 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.

# **Product Characteristics**

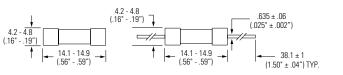
	Body : Glass			
Materials	Cap : Nickel–plated brass			
	Leads: Tin-plated Copper			
Townsin of Community	MIL-STD-202, Method 211,			
Terminal Strength	Test Condition A			
Solderability	MIL-STD-202 method 208			
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks			

Operating Temperature:	-55°C to 125°C.
Thermal Shock:	MIL-STD-202, Method 107, Test Condition B (5 Cycles -65°C to +125°C).
Vibration	MILSTD-202, Method 201
Humidity MIL-STD-202, Method 103, Test Condition A: High (95%) and elevated temp (40°C) for 240 hours	
Salt Spray	MIL-STD-202, Method 101, Test Condition B

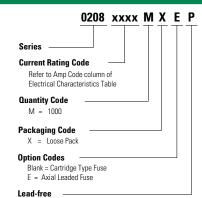
### Dimensions

#### 208 000P Series





# Part Numbering System





Packaging						
Packaging Option	Packaging Option Packaging Specification Quantity Quantity & Packaging Code Taping Width					
208 Series						
Bulk	N/A	1000	MX	N/A		
Bulk	N/A	1000	MXE	N/A		
Reel and Tape	EIA 296-E	1500	DRT1	T1=53mm (2.087")		

### **Recommended Accessories**

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Holder	<u>150</u>	In-Line Fuseholder	350	10
Holder <u>286</u>		Panel Mount Flip-Top Shock-Safe Fuseholder	250	10
Block	<u>254</u>	OMNI-BLOK <sup>®</sup> Fuse Block	400	10
Clip	<u>111</u>	PC Board Mount Fuse Clip	250	10

Notes:

Do not use in applications above rating.
Please refer to fuseholder data sheet for specific re-rating information.
Please contact factory for applications greater than the max voltage and amperage shown.

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics.

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 0208.125MXEP
 0208001.MXP
 0208004.DRT1P
 0208003.DRT1P
 0208007.DRT1P

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 020803.5MXP
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 0208003.DRT1P
 0208007.DRT1P

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 020801.5MXP
 020801.5MXP
 0208003.DRT1P
 0208006.DRT1P

 0208008.MXEP
 020803.5MXEP
 0208006.MXP
 0208004.MXP
 0208010.MXEP
 0208003.MXP

 020805.00MXEP
 0208001.MXEP
 0208005.MXP
 0208005.MXP
 0208005.MXP
 0208004.MXEP

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