

209 Series Lead-Free 2AG, Slo-Blo® Fuse



Agency Approvals

Agency	Agency File Number	Ampere Range			
c RL us	E10480	0.25A - 7A			
	Cartridge				
PS	NBK200405-E10480C NBK110512-E10480A NBK190619-E10480A	1A - 3.5A 4A - 5A 6A - 7A			
E	Axial Leads				
	NBK200405-E10480D NBK110512-E10480B NBK190619-E10480B	1A - 3.5A 4A - 5A 6A -7A			
(€	N/A 0.250A -				

Description

Littelfuse 209 Series (2AG) 350V, Slo-Blo[®] 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

- Recognized to UL/CSA/ NMX 248-1 and UL/CSA/ NMX 248-14
- Available in cartridge and axial lead form and with various forming dimensions

RoHS @ c AL us 🐑 CE

- Conforms to DENAN's Appendix 3
- RoHS compliant and Lead-free

Applications

• Electronic Lighting Ballasts

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 Hours, Min.
135%	1 Hour, Max.
200%	3 Sec. Min. ; 20 Sec. Max.











For recommended fuse accessories for this product series, see 'Recommended Accessories' section.



Axial Lead & Cartridge Fuses

2AG > Slo-Blo® Fuse > 209 Series

Electrical Characteristic Specifications by Item

Amp Ampere Rating Code (A)			Nominal Cold	istance Melting	Agency Approvals			
		Interrupting Rating	Resistance (Ohms)		c AL [°] us	PS E	Œ	
.250	0.25	350		2.410	0.216	х	-	х
.375	0.375	350		1.170	0.87	x	-	х
.500	0.5	350		0.688	1.60	х	-	х
.600	0.6	350		0.477	1.750	x	-	х
.750	0.75	350		0.340	2.950	х	-	х
.800	0.8	350		0.304	3.450	x	-	х
001.	1	350		0.210	5.640	x	x	х
1.25	1.25	350		0.1460	16.2	x	x	х
01.5	1.5	350	100 1 0 050	0.1077	20.8	x	x	х
002.	2	350	100A @ 350Vac	0.0689	30.0	x	x	х
2.25	2.25	350		0.0567	39.0	x	x	х
02.5	2.5	350		0.0502	70.0	x	x	х
003.	3	350		0.0383	77.0	x	x	х
03.5	3.5	350		0.0312	110	x	x	х
004.	4	350		0.0258	148	x	x	х
005.	5	350		0.0186	267	x	x	х
006.	6	350		0.0141	380	x	x	х
007.	7	350		0.0116	464	x	x	х

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





Axial Lead & Cartridge Fuses 2AG > Slo-Blo[®] Fuse > 209 Series

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

Materials	Body : Glass Cap : Nickel-plated brass Leads: Tin-plated Copper		
Terminal Strength	MIL-STD-202, Method 211, 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	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A: High RH (95%) and elevated temp (40°C) for 240 hours
Salt Spray	MIL-STD-202, Method 101, Test Condition B

Dimensions

209 000P Series

209 000EP Series



Part Numbering System





Axial Lead & Cartridge Fuses 2AG > Slo-Blo® Fuse > 209 Series

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width		
209 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
<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® Fuse Block	400	10
Clip	<u>111</u>	PC Board Mount Fuse Clip	250	10

Notes: 1. Do not use in applications above rating. 2. Please refer to fuseholder data sheet for specific re-rating information. 3. 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. Littlefuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at https://www.littelfuse.com/legal/disclaimers/product-disclaimer.aspx.