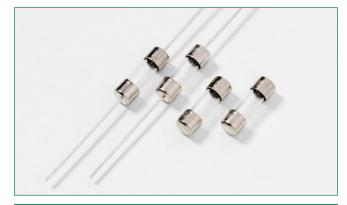
224/225 Series Lead-Free 2AG, Fast-Acting



Agency Approvals

Agency	Agency File Number	Ampere Range
(h	E10480	0.375A - 3.5A
71	E10480	4A - 10A
<u>ج</u>	29862	0.375A - 10A
	225 (Cartridge Version) NBK200405-E10480A NBK200405-E10480C NBK110512-E10480A NBK110619-E10480A	1A 1.5A - 3.5A 4A - 5A 6A - 10A
×.	224 (Axial Leaded Version) NBK200405-E10480B NBK200405-E10480D NBK110512-E10480B NBK190619-E10480B	1A 1.5A - 3.5A 4A - 5A 6A - 10A
Œ	N/A	0.375A - 10A

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 hours, Minimum
135%	1 hour, Maximum
200%	1 sec., Maximum

Electrical Characteristic Specifications by Item

			· · · ·							
	Ampere	Voltage	Interrupting	Nominal Cold	Nominal Cold Nominal Resistance Melting (Ohms) I²t (A² sec)		Agency Approvals			
Amp Code	Rating (A)	Rating (V)	Rating**			(UL)	71		PSE	(€
.375	0.375	250	35A@250Vac	0.3950	0.171	х		х		х
.500	0.5	250	10KA@125Vac	0.2650	0.365	X		х		х
.750	0.75	250	10KA@125Vdc	0.1520	1.050	x		x		х
001.	1	250	IUNAWIZSVUC	0.1027	2.220	X		x	х	х
01.5	1.5	250		0.0712	0.800	X		x	X	х
002.	2	250	100A@250Vac	0.0497	2.180	X		x	x	х
02.5	2.5	250	10KA@125Vac	0.0372	3.820	X		x	X	х
003.	3	250	10KA@125Vdc	0.0317	4.620	X		x	x	х
03.5	3.5	250		0.0265	6.700	X		x	X	х
004.	4	125	1004@250\/aa	0.0240	9.400		x	x	x	х
005.	5	125	100A@250Vac 500A@125Vac	0.0186	17.0		X	x	X	х
005.	5	250	500A@125Vac	0.0186	17.0		X	x		х
006.	6	125	F004@105\/	0.0154	22.1		X	x	X	х
007.	7	125		0.0130	40.0		X	x	X	х
008.	8	125	500A@125Vac	0.0107	56.0		X	х	X	х
010.	10	125		0.0075	116.0		х	x	x	х

* 10A with 500A @ 125 Vdc internal breaking capacity testing

**: Interrupting Rating may differ based on Agency Approval. See Agency Approval certificate for more details...

Description

The 2AG Fast-Acting Fuses are available in cartridge form or with axial leads. 2AG Fuses provide the same performance characteristics as their 3AG counterpart, while occupying one-third the space. Sleeved fuses are available.

Features

- In accordance with Underwriter's Laboratories Standard UL/CSA/NMX 248-14
- with various forming dimensions
- RoHS compliant and Lead-free

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- Available in cartridge and axial lead form and
 - artridge d form and

Applications

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

Additional Information

Resources

224 Series



E.C.

Accessories 224 & 225 Series

Resources 225 Series



Samples 225 Series

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

Samples

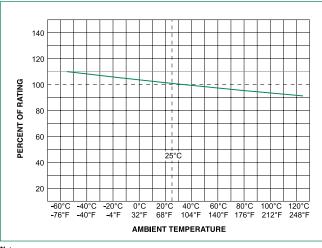
224 Series



Axial Lead & Cartridge Fuses

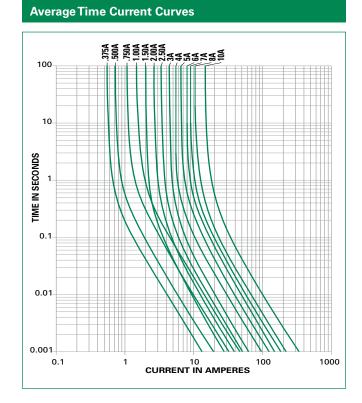
2AG > Fast Acting > 224/225 Series

Temperature Re-rating Curve

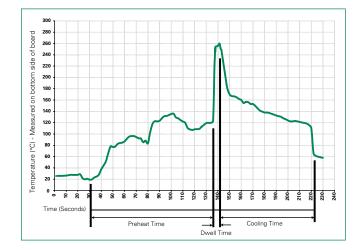


Note:

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		
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.

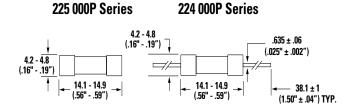


Axial Lead & Cartridge Fuses 2AG > Fast Acting > 224/225 Series

Product Characteristics

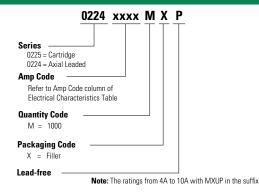
Materials	Body : Glass Cap : Nickel-plated brass Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 Method 208
Product Marking	Cap1 : Brand logo, current and voltage ratings Cap2 : Series and agency approval marks

Dimensions



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

Part Numbering System



Packaging

.5.5				
Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
		224 Series		
Bulk	N/A	1000	MX	N/A
Bulk	N/A	100	HX	N/A
Reel and Tape	EIA 296-E	1500	DRT1	T1=53mm (2.087")
		225 Series		^
Bulk	N/A	1000	MX	N/A
Bulk	N/A	100	HX	N/A

Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage	
	245	Panel Mount Shock-Safe Fuseholder	300	10	
Holder	<u>150</u>	In-Line Fuseholder	350	10	
	286	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. 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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