

## 219XA Series, 5x20mm, Time-Lag Fuse



### Description

5x20mm time-Lag glass body cartridge fuse designed to IEC specification.









### Features

- Designed to International IEC Standards for use globally
- Meets the IEC 60127-2, Sheet 6 specification for time-Lag fuses
- Available in cartridge and axial lead form
- RoHS compliant and lead-free

### Applications

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

### Agency Approvals

Agency	Agency File Number	Ampere Range
	Cartridge: NBK220604-E10480A NBK120802-E10480C	1A – 5A 6.3A
	Leaded: NBK220604-E10480B NBK120802-E10480D	1A – 5A 6.3A
	2004010207110266 2003010207079982	0.125A – 0.800A 1A – 6.3A
	E10480	0.040A – 6.3A
	29862	0.125A – 6.3A
	1620075	0.040A – 6.3A
	40016080	0.040A – 6.3A
	KM41462	0.125A – 6.3A
	N/A	0.040A – 6.3A

### Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
150%	0.04A - 0.1A	1 hours, Minimum
	0.125A – 6.3A	1 hours, Minimum
210%	0.04A - 0.1A	2 minutes, Maximum
	0.125A – 6.3A	2 minutes, Maximum
275%	0.04A - 0.1A	0.2 sec., Min; 10 sec. Max
	0.125A – 6.3A	0.6 sec., Min; 10 sec. Max
400%	0.04A - 0.1A	0.04 sec., Min; 3 sec. Max
	0.125A – 6.3A	.15 sec., Min; 3 sec. Max
1000%	0.04A - 0.1A	.01 sec., Min; 0.3 sec. Max
	0.125A – 6.3A	.02 sec., Min; 0.3 sec. Max

### Additional Information



**Datasheet**



**Resources**



**Samples**











**Accessories**

For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

# Axial Lead & Cartridge Fuses

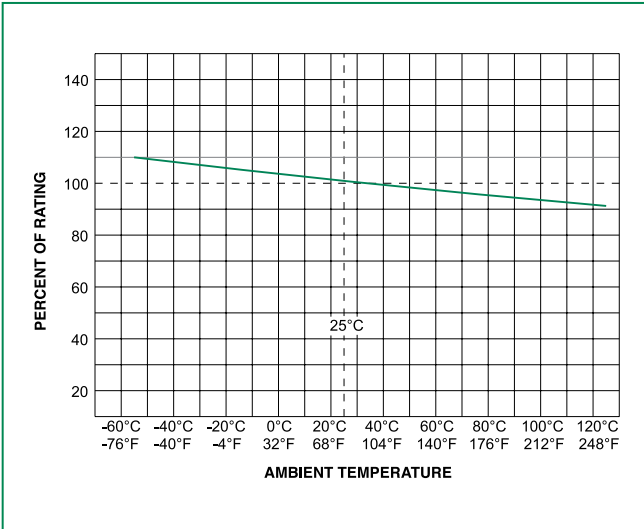
5x20 mm > Time-Lag > 219XA Series

## Electrical Characteristic Specifications by Item

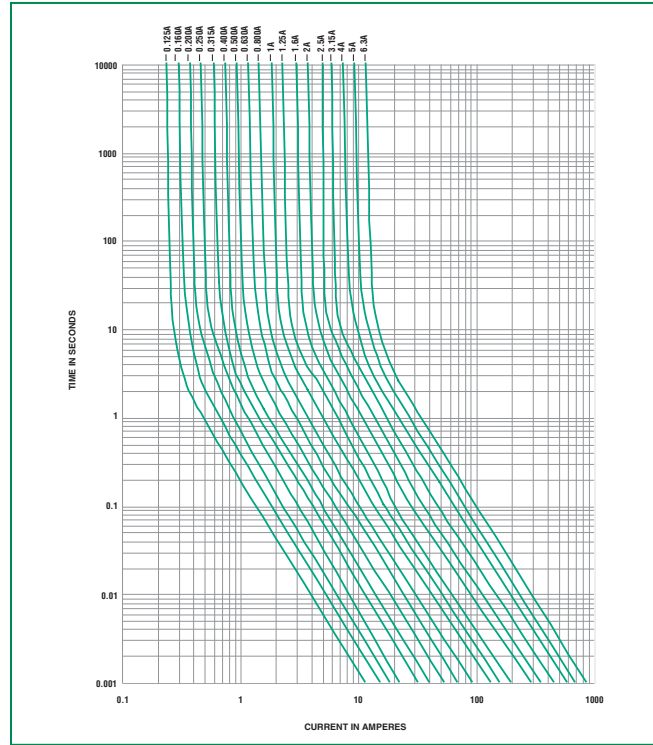
Amp Code	Amp Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I <sup>2</sup> t (A <sup>2</sup> sec)	Maximum Voltage Drop at Rated Current (mV)	Maximum Power Dissipation at 1.5I <sub>n</sub> (W)	Agency Approvals							
															
.040	0.040	250	150A @ 250VAC	31.8620	0.01640	4000	1.6			x		x		x	
.050	0.050	250		21.2920	0.01700	3500	1.6			x		x		x	
.063	0.063	250		14.2685	0.03800	3000	1.6			x		x		x	
.100	0.100	250		6.0180	0.07900	2500	1.6			x		x		x	
.125	0.125	250		4.2000	0.13000	2000	1.6	x		x	x	x	x	x	x
.160	0.160	250		2.5500	0.31000	1900	1.6	x		x	x	x	x	x	x
.200	0.200	250		1.6000	0.32000	1500	1.6	x		x	x	x	x	x	x
.250	0.250	250		1.0495	0.54000	1300	1.6	x		x	x	x	x	x	x
.315	0.315	250		0.8475	1.23000	1100	1.6	x		x	x	x	x	x	x
.400	0.400	250		0.5350	1.40000	1000	1.6	x		x	x	x	x	x	x
.500	0.500	250		0.3700	3.00000	900	1.6	x		x	x	x	x	x	x
.630	0.630	250		0.2750	4.82000	300	1.6	x		x	x	x	x	x	x
.800	0.800	250		0.1635	9.35000	250	1.6	x		x	x	x	x	x	x
001.	1.00	250		0.1165	19.20000	150	1.6	x	x	x	x	x	x	x	x
1.25	1.25	250		0.0817	27.15000	150	1.6	x	x	x	x	x	x	x	x
01.6	1.60	250		0.0551	44.20000	150	1.6	x	x	x	x	x	x	x	x
002.	2.00	250		0.0452	92.70500	150	1.6	x	x	x	x	x	x	x	x
02.5	2.50	250		0.0305	138.00000	120	1.6	x	x	x	x	x	x	x	x
3.15	3.15	250		0.0231	202.00000	100	1.6	x	x	x	x	x	x	x	x
004.	4.00	250		0.0158	330.00000	100	1.6	x	x	x	x	x	x	x	x
005.	5.00	250	0.0117	544.00000	100	1.6	x	x	x	x	x	x	x	x	
06.3	6.3	250	0.0107	1093.03500	100	1.6	x	x	x	x	x	x	x	x	

\*4A-6.3A have an Interrupting rating 100A@350Vac.

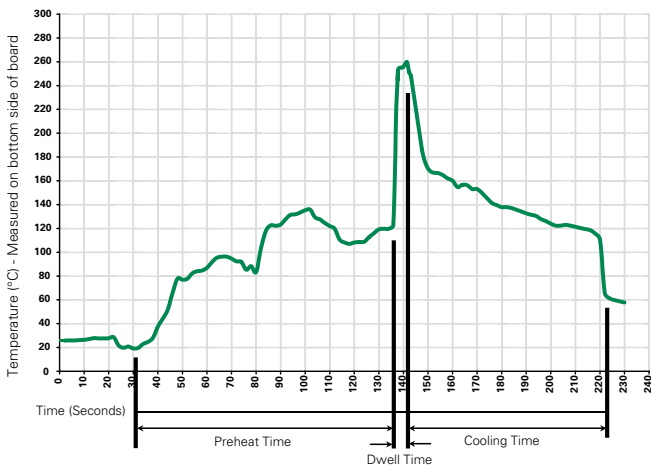
### Temperature Re-rating Curve



### Average Time Current Curves



### 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.**

### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>219XA Series</b>				
Bulk	N/A	1000	MXA	N/A
Bulk	N/A	1000	MXAE	N/A
Reel and Tape	EIA 296-E	1000	MRAET1	T1=53mm (2.087")
Bulk	N/A	1000	MXG	N/A

# Axial Lead & Cartridge Fuses

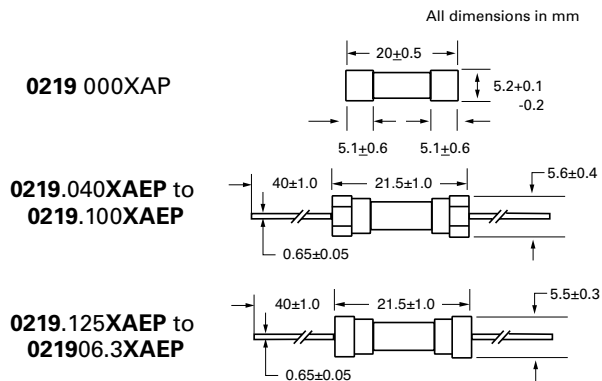
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## Product Characteristics

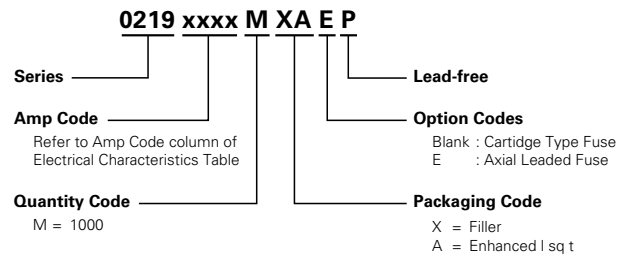
<b>Materials</b>	Body: Glass Cap: Nickel Plated Brass Leads: Tin Plated Copper
<b>Terminal Strength</b>	MIL-STD-202, Method 211. Test Condition A
<b>Solderability</b>	MIL-STD-202 Method 208
<b>Product Marking</b>	Cap 1: Brand logo, current and voltage rating Cap 2: Agency approval markings Series
<b>Packaging</b>	Available in Bulk (M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/reel)

<b>Operating Temperature</b>	-55°C to +125°C
<b>Shock</b>	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
<b>Vibration</b>	MIL-STD-202, Method 201
<b>Humidity</b>	MIL-STD-202, Method 103, Test Condition A high RH (95%) and elevated temperature (40°C) for 240 hours.
<b>Salt Spray</b>	MIL-STD-202 Method 101, Test Condition B

## Dimensions



## Part Numbering System



## Recommended Accessories

Accessory Type	Series	Description	Max Application Voltage	Max Application Amperage
Holder	<a href="#">345_ISF</a>	Panel Mount Shock-Safe Fuseholder	250	10
	<a href="#">345</a>	Shock-Safe Fuseholder with PC Mount, Solder Mount and Panel Mount options		20
	<a href="#">830</a>	PC Mount Shock-Safe Miniature Fuseholder		16
Block	<a href="#">520</a>	Metric OMNI-BLOK® Fuse Block		10
	<a href="#">646</a>	PC Mount Miniature Fuse Block		6.3
	<a href="#">658</a>	Surface Mount Miniature Fuse Block		10
Clip	<a href="#">520_W</a>	PC Mount Miniature Fuse Clip		6.3
	<a href="#">111</a>	PC Board Mount Fuse Clip		10
	<a href="#">445</a>	PC Board Mount Fuse Clip		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.

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