



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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Axial Lead & Cartridge Fuses

5×20 mm > Time-Lag > 219XA Series

219XA Series, 5×20mm, Time-Lag Fuse



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
	1402844	0.040A – 6.3A
	40016080	0.040A – 6.3A
	KM41462	0.125A – 6.3A
	N/A	0.040A – 6.3A

Description

5×20mm 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.

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

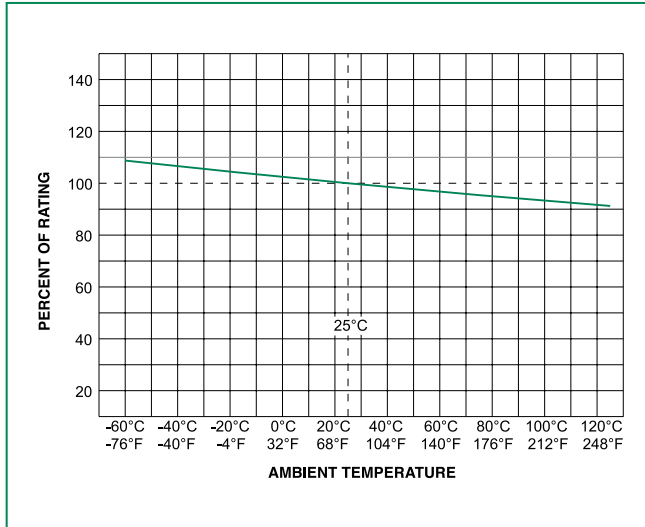
For recommended fuse accessories for this product series, see '[Recommended Accessories](#)' section.

Electrical Characteristic Specifications by Item

Amp Code	Amp Rating (A)	Voltage Rating (V)	Interrupting Rating	Nominal Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec)	Maximum Voltage Drop at Rated Current (mV)	Maximum Power Dissipation at 1.5I _n (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	

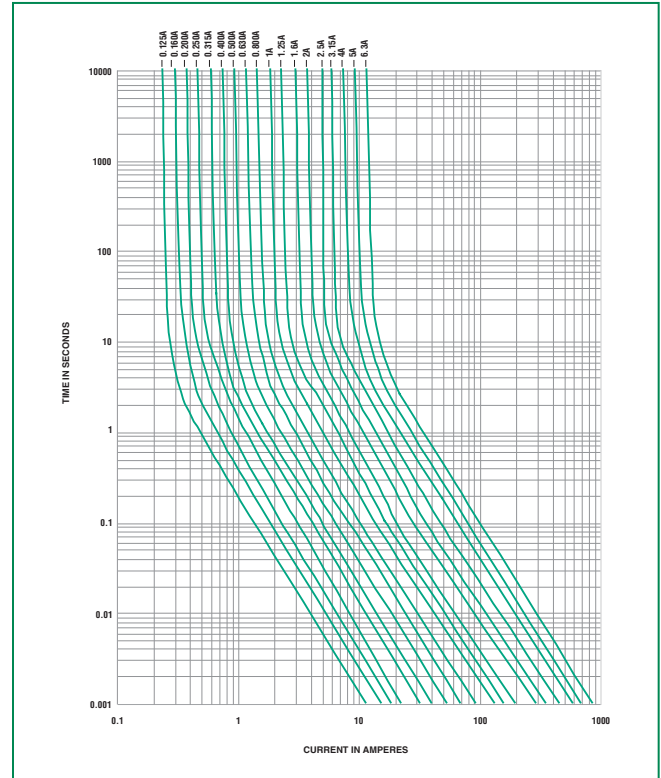
*4A-6.3A have an Interrupting rating 100A@350Vac.

Temperature Re-rating Curve

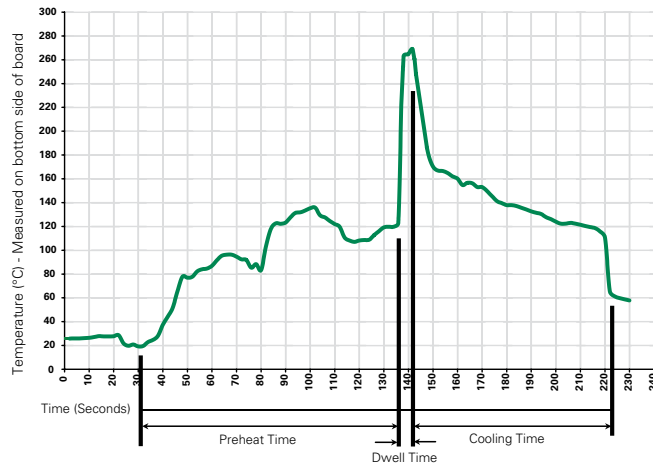


Note:
Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

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.

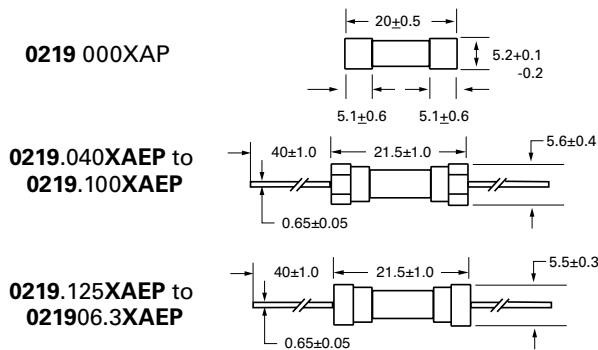
Product Characteristics

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	Cap 1: Brand logo, current and voltage rating Cap 2: Agency approval markings Series
Packaging	Available in Bulk (M=1000 pcs/pkg) or on Tape/Reel (MRET1=1000 pcs/reel)

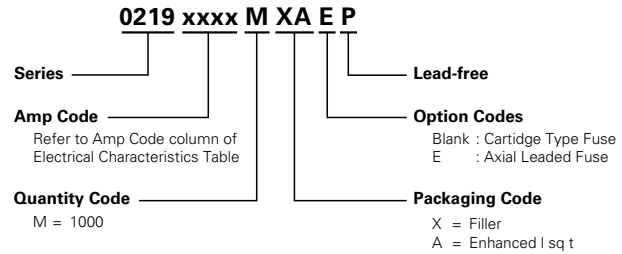
Operating Temperature	-55°C to +125°C
Shock	MIL-STD-202, Method 107, Test Condition B: (5 cycles -65°C to +125°C)
Vibration	MIL-STD-202, Method 201
Humidity	MIL-STD-202, Method 103, Test Condition A high RH (95%) and elevated temperature (40°C) for 240 hours.
Salt Spray	MIL-STD-202 Method 101, Test Condition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

Dimensions

All dimensions in mm



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
219XA Series				
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

Recommended Accessories

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