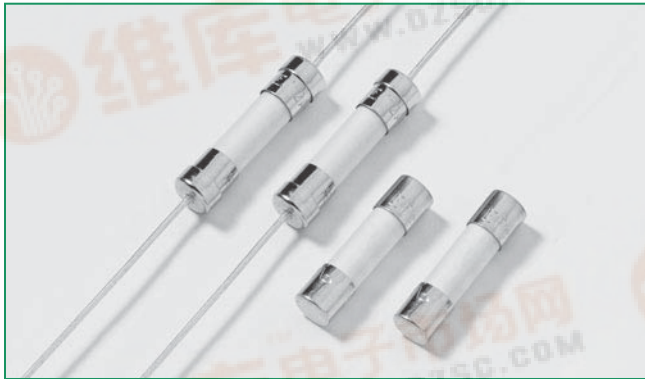


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RoHS **477 Series, 5 x 20 mm, Time-Lag (Slo-Blo®) Fuse**



### Description

400Vdc/500Vac rated, 5x20mm, time-lag, surge withstand ceramic body cartridge fuse.

### Features

- Designed to International (IEC) Standards for use globally
- Follow the IEC 60127-2, Sheet 5 specification for time-lag fuses
- Available in cartridge and axial lead form
- RoHS compliant and lead-free

### Agency Approvals

Agency	Agency File Number	Ampere Range
	Cartridge Certificates: NBK080306-JP1021 A NBK080306-JP1021 B NBK100408-JP1021 A	1A – 5A 6.3A – 12A 16A
	Leaded Certificates: NBK030805-E10480 D NBK030805-E10480 F NBK100408-JP1021 B	1A – 5A 6.3A – 12A 16A
	Cartridge File: No.806815 Leaded File: No.811247	500mA – 8A 500mA – 8A
	Recognised File: E10480	500mA – 16A(500VAC) 500mA – 16A(400VDC)
	Certificate No.: 40025413	1A & 3.15A(500VAC) 1A & 3.15A(400VDC)
		500mA – 16A

### Applications

High energy and power efficient applications.

### Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
150%	.5 – .8	60 minutes, Minimum
	1 – 3.15	60 minutes, Minimum
	4 – 6.3	60 minutes, Minimum
210%	8 – 16	30 minutes, Minimum
	.5 – .8	30 minutes, Maximum
	1 – 3.15	30 minutes, Maximum
275%	4 – 6.3	30 minutes, Maximum
	8 – 16	30 minutes, Maximum
	.5 – .8	.25 sec., Min.; 80 sec., Max.
400%	1 – 3.15	.75 sec., Min.; 80 sec., Max.
	4 – 6.3	.75 sec., Min.; 80 sec., Max.
	8 – 16	.75 sec., Min.; 80 sec., Max.
1000%	.5 – .8	.05 sec., Min.; 5 sec., Max.
	1 – 3.15	.095 sec., Min.; 5 sec., Max.
	4 – 6.3	.15 sec., Min.; 5 sec., Max.
1000%	8 – 16	.15 sec., Min.; 5 sec., Max.
	.5 – .8	.005 sec., Min.; .15 sec., Max.
	1 – 3.15	.01 sec., Min.; .15 sec., Max.
1000%	4 – 6.3	.01 sec., Min.; .15 sec., Max.
	8 – 16	.01 sec., Min.; .15 sec., Max.

477 Series



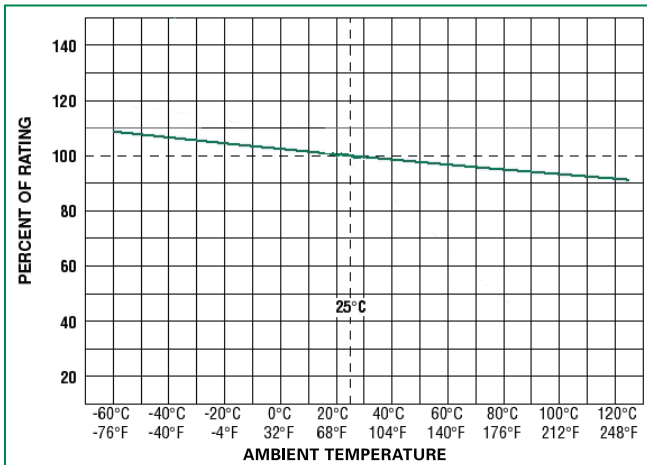
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#### Electrical Characteristics Specifications by Item

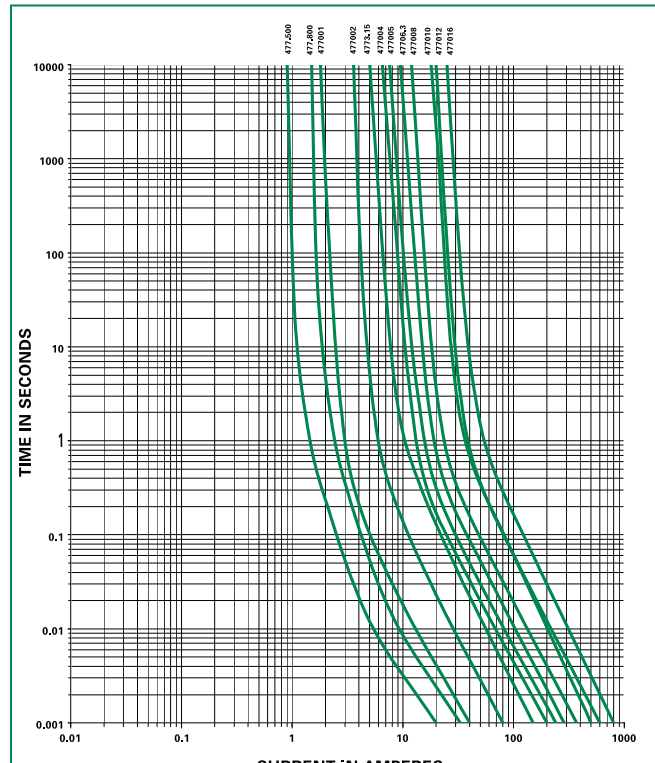
Amp Code	Amp Rating	Max Voltage Rating (V)		Interrupting Rating				Nominal Cold Resistance (Milli-Ohm)	Nominal Melting I <sup>2</sup> T (A <sup>2</sup> Sec.)	Agency Approvals			
				Voltage (V)		Current (A)				UL	CS	VDE	
		AC	DC	AC	DC	AC	DC						
.500*	0.5*	500	400	500	400	100	1500	1055.900	0.300		X	X**	
.800*	0.8*	500	400	500	400	100	1500	430.000	0.909		X	X**	
001.*	1*	500	400	500	400	100	1500	139.400	1.800	X	X	X**	X
002.*	2*	500	400	500	400	100	1500	55.200	9.120	X	X	X**	
3.15*	3.15*	500	400	500	400	100	1500	27.700	50.109	X	X	X**	X
004.*	4*	500	400	500	400	100	500	17.200	52.480	X	X	X**	
005.*	5*	500	400	500	400	100	500	13.700	76.500	X	X	X**	
06.3	6.3	500	400	500	400	100	500	10.970	121.451	X	X	X	
008.	8	500	400	500	400	100	500	8.305	203.520	X	X	X	
010.	10	500	400	500	400	100	500	4.950	610.000	X	X		
012.	12	500	400	500	400	100	500	4.730	576.000	X	X		
016.	16	500	400	500	400	100	400	3.100	1331.200	X	X		

\*100A@600Vac interrupting rating witnessed by UL available for 0.5A to 5A with 600Vac markings. Add suffix "MX6EP". Example: 0477004. MX6EP.  
 \*\*Semko approval for 500Vac type only.

#### Temperature Derating Curve

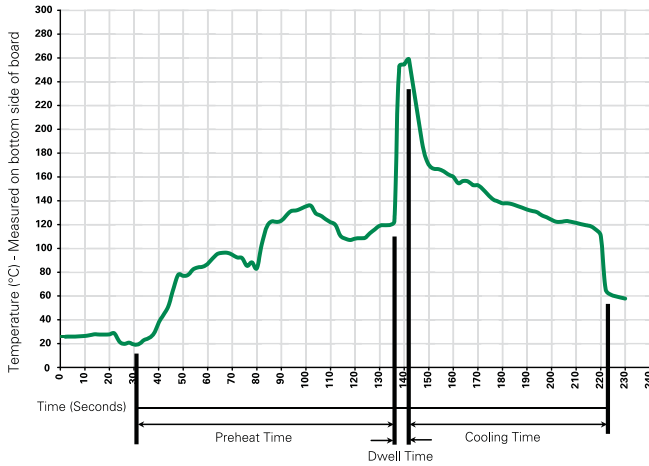


#### Average Time Current Curves



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### 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.

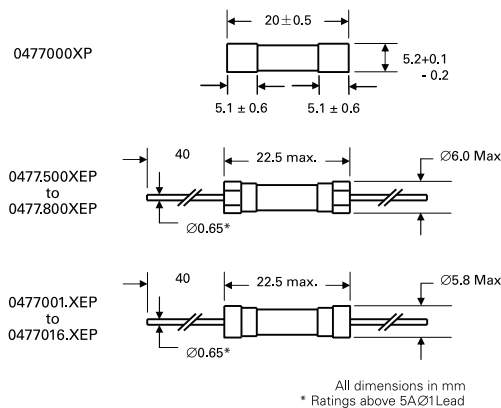
**Note: These devices are not recommended for IR or Convection Reflow process.**

### Product Characteristics

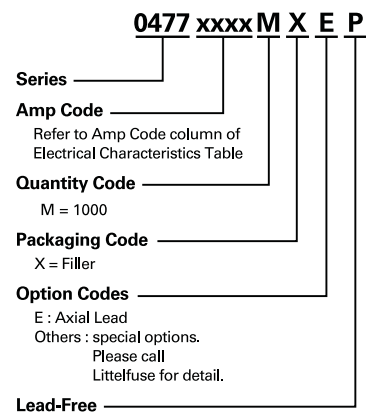
<b>Material</b>	Body: Ceramic Cap: Nickel-plated brass Leads: Tin-plated Copper
<b>Terminal Strength</b>	MIL-STD-202G, Method 211A, Test Condition A
<b>Solderability</b>	Reference IEC 60127 Second Edition 2003-01 Annex A
<b>Product Marking</b>	Cap 1: Brand logo, current and voltage rating Cap 2: Series and agency approval markings
<b>Packaging</b>	Available in Bulk (M=1000 pcs/pkg)

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

### Dimensions



### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
<b>477 Series</b>				
Bulk	N/A	1000	MX	N/A
Bulk	N/A	1000	MXE	N/A