477 Series

5×20 mm, Time-Lag Fuse



Additional Information







Resources

Accessories

Samples

Agency Approvals

Agency	Agency File Number	Ampere Range			
◆	Cartridge: NBK040609-JP1021A NBK040609-JP1021C NBK100408-JP1021A Leaded: NBK040609-JP1021B NBK040609-JP1021D NBK100408-JP1021B	1A – 5A 6.3A – 12A 16A 1A – 5A 6.3A – 12A			
0	1620077	0.50A - 8A			
c 'RL 'us	E10480	0.50A - 16A			
VDE	40025413	1A, 3.15A			
A	J50248089	10A, 12A, 16A			
€	N/A	0.50A - 16A			
CA	N/A	0.50A - 16A			

ROHS (CE CH

Description

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

Features & Benefits

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

Applications

High energy and power efficient applications.

Electrical Characteristics for Series

% of Ampere Rating	Ampere Rating	Opening Time
150%	.58	60 minutes, Minimum
	1 - 3.15	60 minutes, Minimum
	4 - 6.3	60 minutes, Minimum
	8 - 16	30 minutes, Minimum
	.58	30 minutes, Maximum
210%	1 - 3.15	30 minutes, Maximum
21076	4 - 6.3	30 minutes, Maximum
	8 - 16	30 minutes, Maximum
	.58	.25 sec., Min.; 80 sec. Max.
275%	1 - 3.15	.75 sec., Min.; 80 sec. Max.
27370	4 - 6.3	.75 sec., Min.; 80 sec. Max.
	8 - 16	.75 sec., Min.; 80 sec. Max.
	.58	.05 sec., Min.; 5 sec. Max.
400%	1 - 3.15	.095 sec., Min.; 5 sec. Max.
400 /6	4 - 6.3	.15 sec., Min.; 5 sec. Max.
	8 - 16	.15 sec., Min.; 5 sec. Max.
	.58	.005 sec., Min.; .15 sec. Max.
1000%	1 - 3.15	.01 sec., Min.; .15 sec. Max.
1000 70	4 - 6.3	.01 sec., Min.; .15 sec. Max.
	8 - 16	.01 sec., Min.; .15 sec. Max.

477 Series

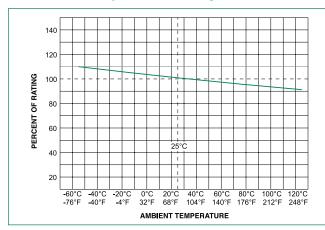
5×20 mm, Time-Lag Fuse

Electrical Characteristic

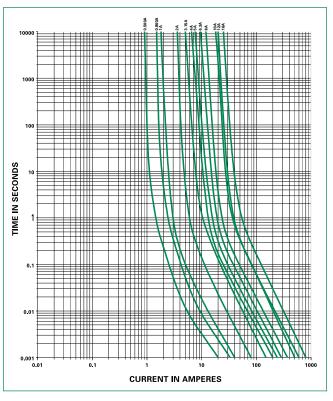
Amp	Amp		oltage		Nominal Cold	Nominal	Agenc		ncy Appro	y Approvals			
Code	Rating	AC	ig (V) DC	Interrupting Rating	Resistance (Milli-ohms)	Melting I ² t (A ² sec.) [†]	Œ	CA	PS	c FL °us	\bigcirc	A	VDE
.500	0.5	500	400		1055.900	0.300	X	Х	-	x*	×**	-	-
.800	0.8	500	400	1004@500\/40	430.000	0.909	X	Х	-	x*	x**	-	-
001.	1	500	400	100A@500VAC 1500A@400VDC	139.400	1.800	X	Х	X	X*	x**	-	X
002.	2	500	400		55.200	9.120	X	X	Х	X*	x**	-	-
3.15	3.15	500	400		27.700	50.109	X	X	Х	X*	X**	-	X
004.	4	500	400		17.200	52.480	X	X	Х	X*	x**	-	-
005.	5	500	400		13.700	76.500	X	Х	Х	X*	X**	-	-
06.3	6.3	500	400	100A@500VAC 500A@400VDC	10.970	121.451	X	Х	Х	X	x**	-	-
008.	8	500	400		8.305	203.520	X	X	Х	X	X**	-	-
010.	10	500	400		4.950	509.000	X	X	Х	X	-	X	-
012.	12	500	400		4.730	576.000	X	X	Х	X	-	X	-
016.	16	500	400	100A@500VAC 400A@400VDC	3.100	1331.200	x	x	x	х	-	x***	-

***100A@ 500Vac and 300A@400Vdc for 16A

Temperature Re-rating Curve



Average Time Current Curves



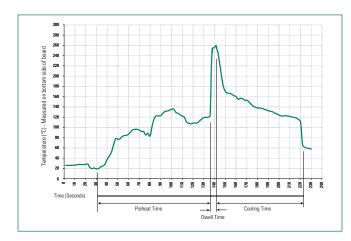


Notes: *100A @ 600Vac also available. Add suffix "MXE6P". Example: 0477004.MXE6P.

^{**}Semko approval for 100A@500Vac and 200A@400Vdc.

[†]I2t test at 10x rated current.

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.

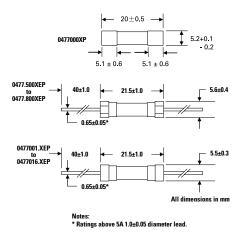
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

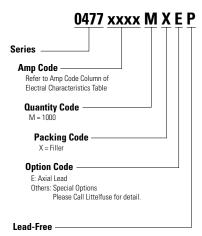
	Body: Ceramic
Materials	Cap: Nickel-plated Brass
	Leads: Tin-plated Copper
Terminal Strength	MIL-STD-202, Method 211, Test Condition A
Solderability	MIL-STD-202 Method 208
Product Marking	Cap 1: Brand logo, current and voltage ratings
Product Marking	Cap 2: Series and agency approval markings
Packaging	Available in Bulk (M=1000 pcs/pkg)

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

Dimensions



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size				
477 Series								
Bulk	N/A	1000	MX	N/A				
Bulk	N/A	1000	MXE	N/A				
Reel and Tape	N/A	1000	MRET1	T1=53mm (2.087")				

Disclaimer Notice - Littelfuse products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-saving,



单击下面可查看定价,库存,交付和生命周期等信息

>>Littelfuse(美国力特)