

Additional Information



Resources





Accessories

Samples

Agency Approvals

Agency	Agency File Number	Ampere Range		
c FL °us	E10480	0.375A - 5A		
PS	NBK030205-E10480B	1A - 5A		
UK CA	N/A	0.375A - 5A		
(€	N/A	0.375A - 5A		

Electrical Characteristics for Series

% of Ampere Rating	Opening Time
100%	4 hours, Minimum
200%	1 sec., Min.; 60 sec., Max.
300%	0.2 sec., Min.; 3 sec., Max
800%	0.002 sec., Min.; 0.1 sec., Max.

Description

The lead free NANO2® Slo-Blo® fuse is RoHS compliant, Halogen Free and 100% lead-free. This product is fully compatible with lead-free solder alloys and higher temperature profiles associated with lead-free assembly. The Slo-Blo® fuse design has enhanced inrush withstand characteristics over the NANO2® Fast-Acting Fuse. The unique time delay feature of this fuse design helps solve the problem of nuisance "opening" by accommodating inrush currents that normally cause a fast-acting fuse to open.

Features & Benefits

- Lead-free, Halogen free and RoHS compliant
- Small size
- available
- Wide operating temperature
- UL Recognized to UL/CSA/ NMX UL 248-1 and UL/CSA/ NMX UL 248-14
- Wide range of current ratings Conforms to DENAN's Appendix 3

Applications

Secondary protection for space constrained applications:

- Notebook PC
- LCD/PDPTV
- LCD monitor
- LCD/PDP panel
- LCD backlight inverter
- Portable DVD player
- Power supply
- Networking
- PC server
- Cooling fan system

- Storage system
- Telecom system
- Wireless basestation
- White goods
- Game console
- Office Automation equipment
- Battery charging circuit protection
- Industrial equipment

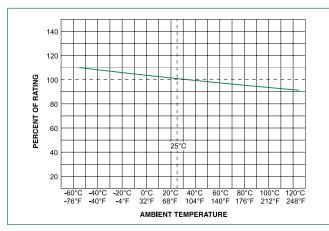
Electrical Specifications by Item

Ampere Rating	Amp	Max	Interrupting	Nominal Cold	Nominal Melting	Agency Approvals			
(A)	Code Voltage Rating (V)	Rating	Resistance I²t (A²s	I ² t (A ² sec)	UK CA	Œ	c FL °us	⟨PS⟩	
0.375	.375	125		1.5130	0.088	X	Х	X	-
0.500	.500	125	50A @125 VAC/VDC	0.7633	0.258	X	Х	X	-
0.750	.750	125		0.4080	0.847	X	Х	X	-
1.00	001.	125		0.2516	1.76	X	Х	X	X
1.50	01.5	125		0.1186	4.70	X	Х	X	X
2.00	002.	125		0.0708	6.76	X	X	X	X
2.50	02.5	125	PSE: 100A @100 VAC	0.0400	13.18	X	Х	X	X
3.00	003.	125		0.0352	19.55	X	Х	X	X
3.50	03.5	125		0.0261	32.70	X	Х	X	X
4.00	004.	125		0.0227	40.80	Х	X	X	X
5.00	005.	125		0.0171	59.59	Х	X	X	X

Notes - I2t calculated at 8ms. Resistance is measured at 10% of rated current, 25°C



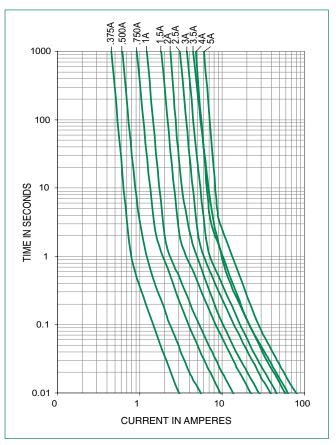
Temperature Re-rating Curve



Note:

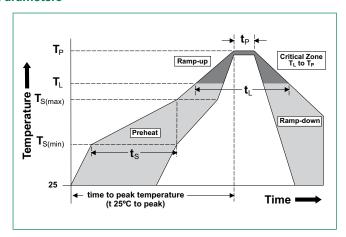
1. Rerating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters

			DI E		
Reflow Condition		Pb – Free			
		assembly			
Pre Heat	-Temperature Min (T _{s(min)})		150°C		
	-Temperature Max (T _{s(max)})		200°C		
	-Time (Min to Max) (t _s)		60 – 180 secs		
Average ramp up rate (Liquidus Temp (T _L) to peak			3°C/second max.		
T _{S(max)} to T _L - Ramp-up Rate			3°C/second max.		
Reflow	-Temperature (T _L) (Liquidus)		217°C		
Hellow	-Temperature (t _L)	60 – 150 seconds		
Peak Temperature (T _P)			260 ^{+0/-5} °C		
Time within 5°C of actual peak Temperature (t _p)			20 – 40 seconds		
Ramp-down Rate			5°C/second max.		
Time 25°C to peak Temperature (T _p)			8 minutes max.		
Do not exceed		260°C			
		00000 D1-T			
Wave Soldering Parameters 260°C Peak Temperature, 3 seconds max.			rature,		



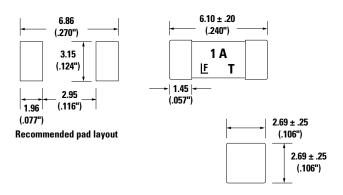


Product Characteristics

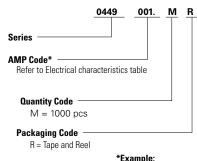
Materials	Body: Ceramic Terminations: Gold-plated Caps
Product Marking	Brand, Amperage Rating
Operating Temperature	-55°C to 125°C
Moisture Sensitivity Level	Level 1, J-STD-020
Solderability	MIL-STD-202, Method 208
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum)

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme
Mechanical Shock	MIL-STD-202, Method 213, Test I: Deenergized. 100G's pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks
Vibration	MIL-STD-202, Method 201: 0.03" amplitude, 10-55 Hz in 1 min. 2hrs each XYZ=6hrs
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48hrs)
Resistance to Soldering Heat	MIL-STD-202, Method 210, Test condition B (10 sec at 260°C)

Dimensions mm (inches)



Part Numbering System



0.375 Amp product is 0449.375MR (1 amp product shown above).

Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
12mm Tape and Reel	EIA RS-481-2 IEC 60286-3	1000	MR

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