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452/454 Series Fuse RoHS









Agency Approvals

AGENCY	AGENCY FILE NUMBER	AMPERE RANGE	
. 7 \	E10480	375MA - 5A	
⊕ ®	LR29862	375MA - 5A.	
PS	NBK030205-E10480B	1A - 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%	0.02 sec., Min.; 0.1 sec., Max.		

Description

The NANO² Slo-Blo® fuse 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

- Time-Lag (Slo-Blo)
- Small size
- Wide range of current rating available (375mA to 5A)
- Wide operating temperature range
- Low temperature de-rating
- RoHS compliant
- Halogen Free

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

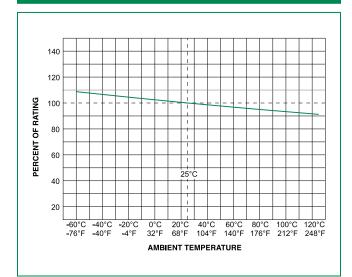
- Telecom system
- Wireless basestation
- White goods
- Game console
- Office Automation equipment
- Battery charging circuit protection
- Industrial equipment
- Medical equipment
- Automotive

Electrical Specifications by Item

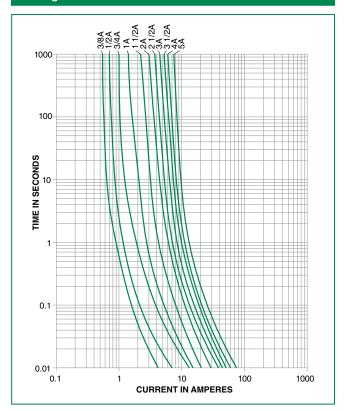
Ampere		Max	lessementie e	Nominal Cold	Nominal	Agency Approvals		
Rating (A)	Amp Code	Voltage Rating (V)	Interrupting Rating	Resistance (Ohms)	Melting I²t (A²sec)	. 7U	⊕ ®	PS
0.375	.375	125		1.2000	0.101	×	x	
0.500	.500	125		0.7000	0.240	×	×	
0.750	.750	125	50 amperes @125 VAC/VDC	0.3600	0.904	Х	х	
001.	001.	125		0.2250	1.98	X	х	X
1.50	01.5	125		0.0930	3.65	Х	х	×
2.00	002.	125		0.0625	8.20	Х	x	×
2.50	02.5	125		0.0450	15.0	x	×	×
3.00	003.	125		0.0340	20.16	Х	х	×
3.50	03.5	125		0.0224	26.53	Х	Х	х
4.00	004.	125		0.0186	34.40	х	×	×
5.00	005.	125		0.0136	53.72	х	×	×



Temperature Rerating Curve

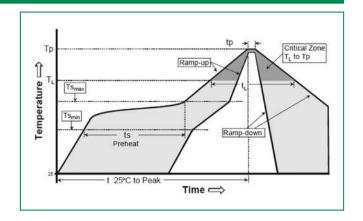


Average Time Current Curves



Soldering Parameters

Reflow Co	ndition	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 – 120 secs	
Average ra	amp up rate (LiquidusTemp k	5°C/second max	
T _{S(max)} to T _L	- Ramp-up Rate	5°C/second max	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 - 90 seconds	
Peak Temperature (T _p)		250 ^{+0/-5} °C	
Time with	in 5°C of actual peak ıre (t _p)	20 – 40 seconds	
Ramp-dov	vn Rate	5°C/second max	
Time 25°C	to peakTemperature (T _P)	8 minutes Max.	
Do not exc	ceed	260°C	
Wave Solo	lering Parameters	260°C Peak temperature, 3 seconds Max	



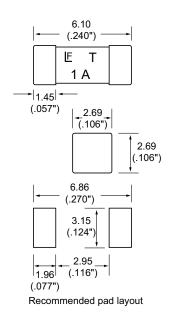
Surface Mount Fuses NANO^{2®} > Slo-Blo[®] > 452/454 Series

Product Characteristics

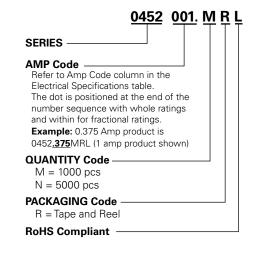
Materials	Body: Ceramic Terminations: Gold-plated Caps (452) / Silver-plated Caps (454)		
Product Marking	Brand, Ampere Rating		
Operating Temperature	-55°C to 125°C		
Moisture Sensitivity Level	Level 1, J-STD-020C		
Solderability	MIL-STD-202, Method 208		
Insulation Resistance (after Opening)	MIL-STD-202, Method 302, Test Condition A (10,000 ohms minimum)		

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C / +125°C, 15 minutes @ each extreme		
Mechanical Shock	MIL-STD-202, Method 213, Test I: Deenergized. 100gn 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



Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code
12mm Tape and Reel	EIA RS-481-1 (IEC 286, part 3)	5000	NR
12mm Tape and Reel	EIA RS-481-1 (IEC 286, part 3)	1000	MR