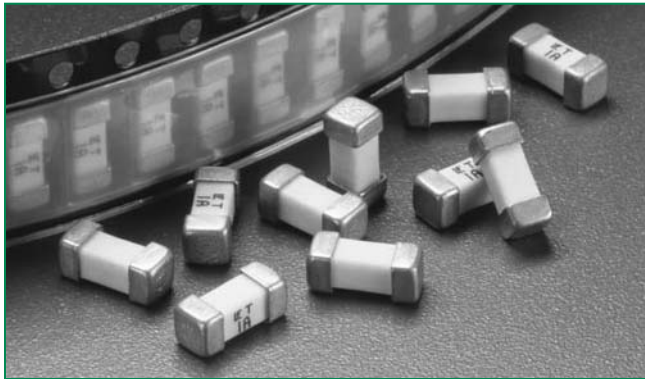


RoHS 452/454 Series Fuse



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/PDP TV
- 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




Agency Approvals

| AGENCY | AGENCY FILE NUMBER | AMPERE RANGE |
|---|--------------------|--------------|
|  | E10480 | 375MA - 5A |
|  | LR29862 | 375MA - 5A. |
|  | 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. |

Electrical Specifications by Item

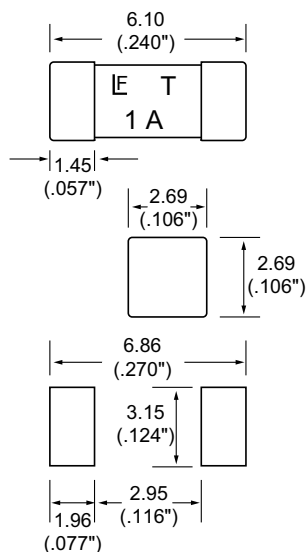
| Ampere Rating (A) | Amp Code | Max Voltage Rating (V) | Interrupting Rating | Nominal Cold Resistance (Ohms) | Nominal Melting I ² t (A ² sec) | Agency Approvals | | |
|-------------------|----------|------------------------|-------------------------|--------------------------------|---|---|---|---|
| | | | | | |  |  |  |
| 0.375 | .375 | 125 | 50 amperes @125 VAC/VDC | 1.2000 | 0.101 | x | x | |
| 0.500 | .500 | 125 | | 0.7000 | 0.240 | x | x | |
| 0.750 | .750 | 125 | | 0.3600 | 0.904 | x | x | |
| 001. | 001. | 125 | | 0.2250 | 1.98 | x | x | x |
| 1.50 | 01.5 | 125 | | 0.0930 | 3.65 | x | x | x |
| 2.00 | 002. | 125 | | 0.0625 | 8.20 | x | x | x |
| 2.50 | 02.5 | 125 | | 0.0450 | 15.0 | x | x | x |
| 3.00 | 003. | 125 | | 0.0340 | 20.16 | x | x | x |
| 3.50 | 03.5 | 125 | | 0.0224 | 26.53 | x | x | x |
| 4.00 | 004. | 125 | | 0.0186 | 34.40 | x | x | x |
| 5.00 | 005. | 125 | | 0.0136 | 53.72 | x | x | x |

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) |

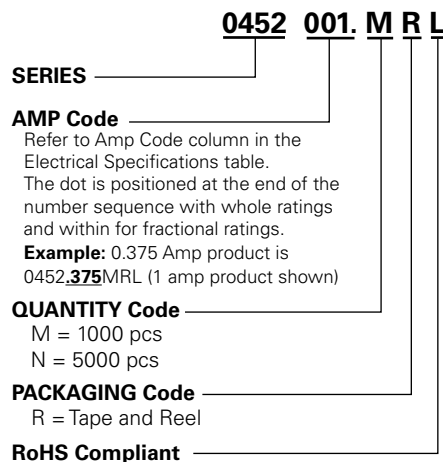
| | |
|-------------------------------------|--|
| Thermal Shock | MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C / +125°C, 15 minutes @ each extreme |
| Mechanical Shock | MIL-STD-202, Method 213, Test I: Deenergized. 100gn pk amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 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



Recommended pad layout

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 |

Mouser Electronics

Authorized Distributor

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Littelfuse:

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[0454001.MR](#) [0452002.MRL](#) [045203.5MRL](#) [0452005.MRL](#) [0452001.NRL](#) [0452005.NRL](#) [R452.375L](#) [R45203.5L](#)
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[0452.500NRL](#) [0452002.NRL](#) [0452003.NRL](#) [045202.5NRL](#) [0454007.MR](#)