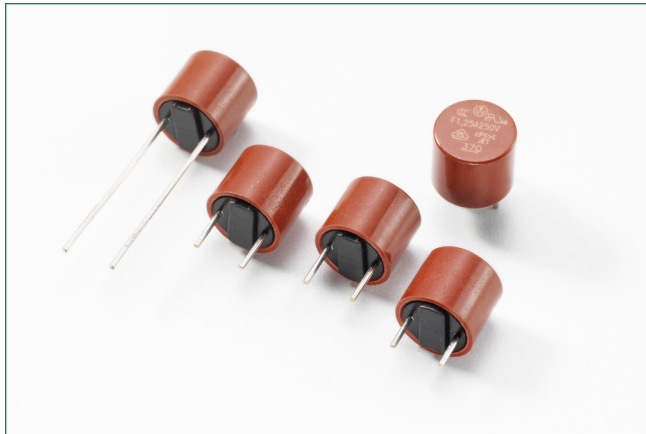


370 Series

TR5® Fuse, Fast Acting



Description

The 370 Series are sub-miniature TR5® fuses, fast acting type, 250V rated fuses, designed in accordance to IEC 60127-3.

Features & Benefits

- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Lead-free, Halogen free and RoHS compliant
- Available from 0.040A to 6.3A
- UL Recognized to UL/CSA/NMX 248-1 and UL/CSA/NMX 248-14
- Conforms to EN/J 60127-1 and EN/J 60127-3
- Conforms to GB/T9364.1 and GB/T9364.3

Additional Information



Resources



Accessories



Samples

Applications

- Battery Chargers
- Consumer Electronics
- Power supplies
- Industrial Controllers

Agency Approvals

| Agency | Certificate Number | Ampere Range |
|--------|--------------------|-----------------|
| | 40021074 | 0.050A - 0.080A |
| | 98941 | 0.100A - 5A |
| | 40005316 | 6.3A |
| | 40024532 | 0.040A |
| | E67006 | 0.040A - 6.3A |
| | JET1896-31007-2002 | 1A - 5A |
| | 2020970207000050 | 0.050A - 6.3A |

Electrical Characteristics

| % of Ampere Rating | Opening Time |
|--------------------|--|
| 150% | 1 Hour, Min. |
| 210% | 30 Minutes, Max. |
| 275% | 10 ms, Min. ; 3 Sec., Max. |
| 400% | 3 ms, Min. ; 300 ms, Max. |
| 1000% | 20 ms, Max. |

370 Series

TR5® Fuse, Fast Acting

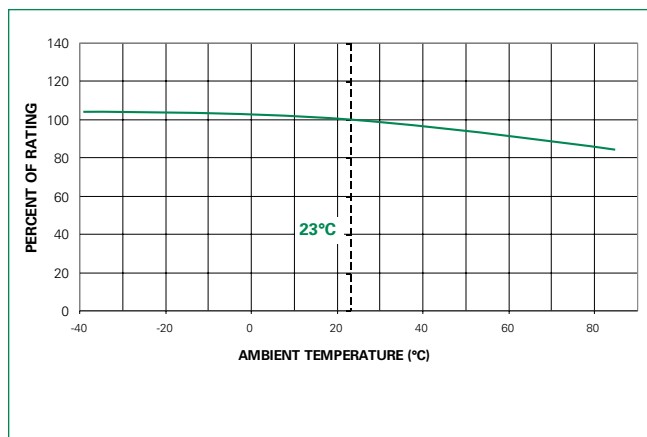
Electrical Characteristics

| Amp Code | Rated Current | Voltage Rating | Breaking Capacity ³ | Nominal Cold Resistance (Ohms) ² | Voltage Drop 1.0xI _N max. (mV) | Power Dissipation 1.5xI _N max. (mW) | Melting Integral 10xI _N max. (A ² s) | Agency Approvals | | | | |
|----------|---------------|----------------|--------------------------------|---|---|--|--|------------------|-----|---------|----|-----|
| | | | | | | | | VDE | D'E | C RU US | PS | CCC |
| 0040 | 40mA | 250V | 35A @ 250VAC | 6.0000 | 900 | 100 | 0.0002 | X | - | X | - | - |
| 0050 | 50mA | 250V | | 4.0224 | 320 | 80 | 0.0004 | - | X | X | - | X |
| 0063 | 63mA | 250V | | 2.6740 | 350 | 100 | 0.0005 | - | X | X | - | X |
| 0080 | 80mA | 250V | | 2.0000 | 370 | 120 | 0.0014 | - | X | X | - | X |
| 0100 | 100mA | 250V | | 4.6100 | 600 | 130 | 0.0038 | - | X | X | - | X |
| 0125 | 125mA | 250V | | 3.2400 | 550 | 172 | 0.0066 | - | X | X | - | X |
| 0160 | 160mA | 250V | | 2.2520 | 500 | 165 | 0.0140 | - | X | X | - | X |
| 0200 | 200mA | 250V | | 1.6900 | 465 | 190 | 0.0300 | - | X | X | - | X |
| 0250 | 250mA | 250V | | 1.3420 | 400 | 250 | 0.0510 | - | X | X | - | X |
| 0315 | 315mA | 250V | | 0.9300 | 380 | 250 | 0.1000 | - | X | X | - | X |
| 0400 | 400mA | 250V | | 0.1610 | 120 | 135 | 0.0250 | - | X | X | - | X |
| 0500 | 500mA | 250V | | 0.1210 | 120 | 155 | 0.0420 | - | X | X | - | X |
| 0630 | 630mA | 250V | | 0.0920 | 115 | 200 | 0.0760 | - | X | X | - | X |
| 0800 | 800mA | 250V | | 0.0760 | 120 | 310 | 0.1200 | - | X | X | - | X |
| 1100 | 1.00A | 250V | | 0.0676 | 110 | 310 | 0.2000 | - | X | X | X | X |
| 1125 | 1.25A | 250V | | 0.0518 | 100 | 360 | 0.3100 | - | X | X | X | X |
| 1160 | 1.60A | 250V | 0.0420 | 100 | 600 | 0.5300 | - | X | X | X | X | |
| 1200 | 2.00A | 250V | 0.0325 | 85 | 500 | 0.9800 | - | X | X | X | X | |
| 1250 | 2.50A | 250V | 0.0246 | 80 | 660 | 1.8000 | - | X | X | X | X | |
| 1315 | 3.15A | 250V | 0.0184 | 90 | 950 | 3.1000 | - | X | X | X | X | |
| 1400 | 4.00A | 250V | 40A / 250VAC | 0.0129 | 80 | 920 | 6.7000 | - | X | X | X | X |
| 1500 | 5.00A | 250V | 50A / 250VAC | 0.0105 | 80 | 1000 | 12.0000 | - | X | X | X | X |
| 1630 | 6.30A* | 250V | 63A / 250VAC | 0.0073 | 70 | 1200 | 24.0000 | X | - | X | - | X |

Notes:

- 1) 1.00 means the number one with two decimal places, 1.000 means the number one thousand.
- 2) Resistance is measured at 10% of rated current, 25°C.
- 3) Breaking Capacity may differ based on Agency Approval. See Agency Approval certificate for more details.

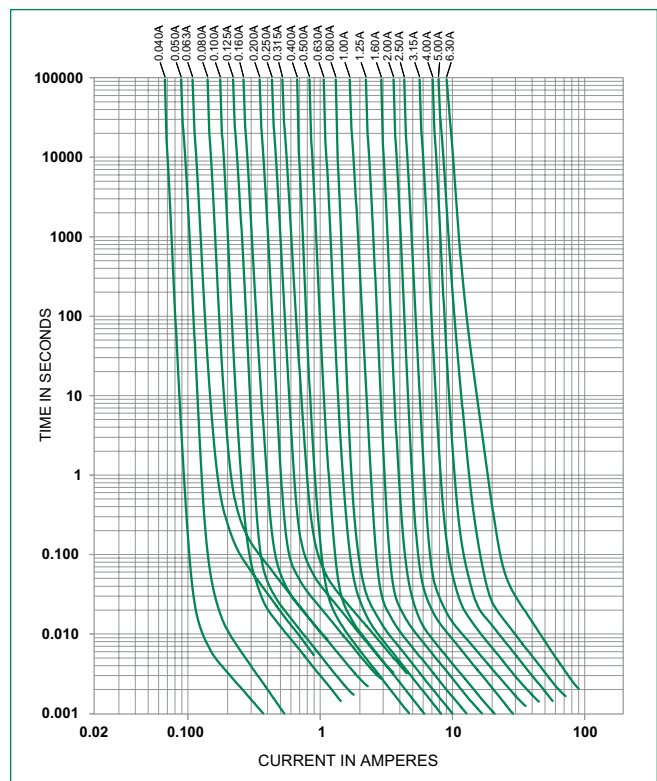
Temperature Rerating Curve



Note

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

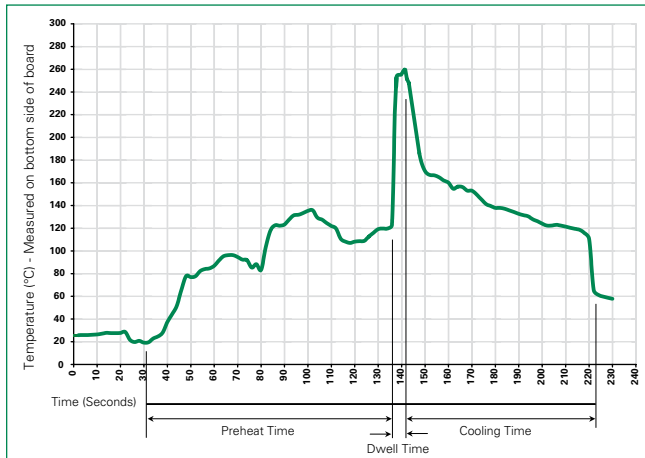
Average Time Current Curves



370 Series

TR5® Fuse, Fast Acting

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.

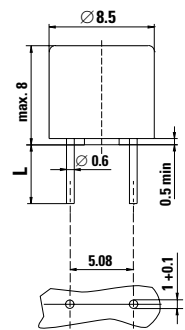
Note: These devices are not recommended for IR or Convection Reflow process.

Product Characteristics

| | |
|----------------------------------|--|
| Materials | Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94 V-0 Round Pins: Copper, Tin-plated |
| Lead Pull Strength | 10 N (IEC 60068-2-21) |
| Solderability | 260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron) |
| Soldering Heat Resistance | 260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron) |

| | |
|------------------------------|---|
| Operating Temperature | -40°C to +85°C (consider de-rating) |
| Climatic Category | -40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-2-78) |
| Stock Conditions | +10°C to +60°C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95% |
| Vibration Resistance | 24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60 Hz at 0.75 mm amplitude 60 - 2000 Hz at 10G acceleration |

Dimensions (mm)



Long Leads (L=18.8mm)
Short Leads (L=4.3mm)

Löcher in der Leiterplatte
Holes in the printed circuit board

Holes in PCB

Part Numbering System

370 xxxx 0000

Series

Amp Code

Refer to Amp Code column of
Electrical Characteristics Table

Packaging Code

0000 Tape/Ampopack (1,000 pcs.)
0410 Short Leads - Bulk (1,000 pcs.)

Packaging

| Packaging Option | Packaging Specification | Quantity | Quantity & Packaging Code | Taping Width |
|-------------------|-------------------------|----------|---------------------------|--------------|
| 370 Series | | | | |
| Tape & Ampopack | N/A | 1,000 | 0000 | N/A |
| Short Leads | N/A | 1,000 | 0410 | N/A |

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