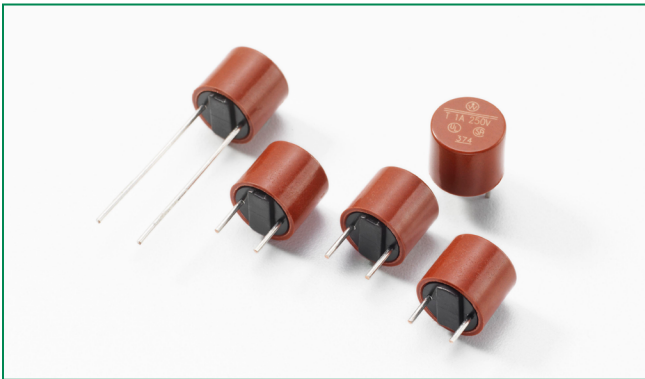


## 374 Series, TR5®, Time-Lag Fuse



### Description

The TR5® 374 Series are time-Lag 250V rated fuses, that are designed in accordance to UL 248-14.




### Features

- Lead-free
- Reduced PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance
- Shock safe casing
- Vibration resistant
- Halogen free
- Available from 50mA to 10A

### Applications

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

### Agency Approvals

Agency	Agency File Number	Ampere Range
	File number: E 67006	50mA - 6.3A
	Certification: 51378	50mA - 6.3A
	File number: E 67006	8A - 10A

### Electrical Characteristics

% of Ampere Rating	Opening Time
200%	60 Seconds,

### Additional Information



Datasheet



Resources



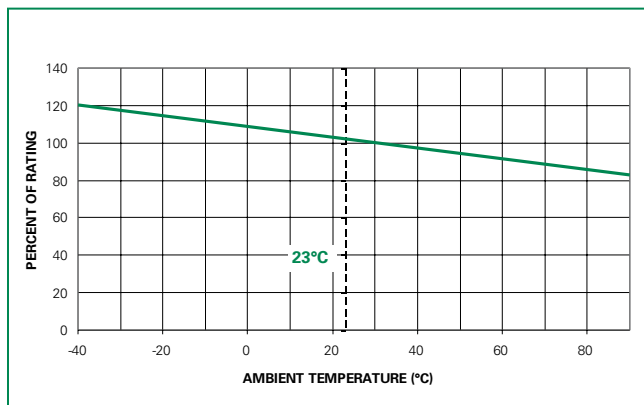
Samples

## Electrical Characteristics

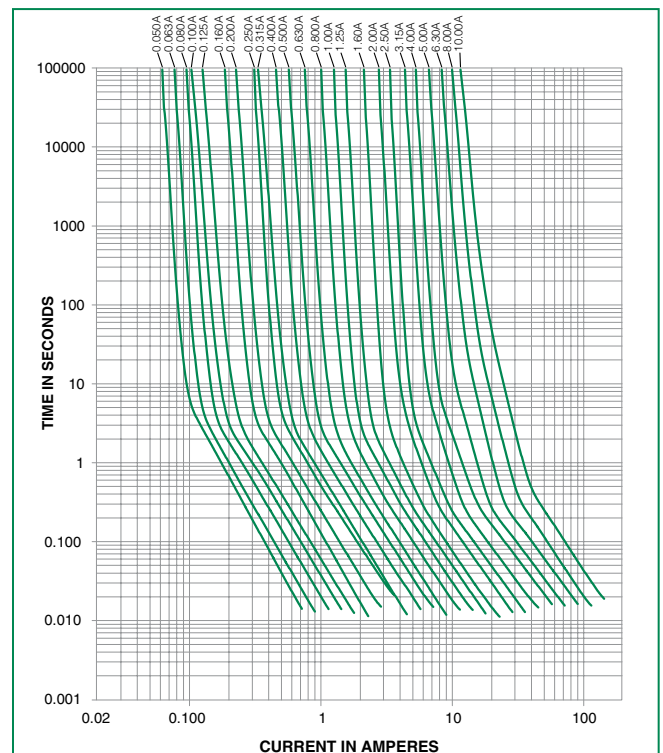
Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Voltage Drop $1.0 \times I_N$ max. (mV)	Power Dissipation $1.0 \times I_N$ max. (mW)	Melting Integral $10 \times I_N$ min. (A <sup>2</sup> s)	Agency Approvals		
							UL	SF	UL US
0050	50mA	250V	50 A / 250 VAC 50-60 Hz $\cos \phi = 1.0$	900	45	0.0056	x	x	
0063	63mA	250V		800	50	0.009	x	x	
0080	80mA	250V		700	55	0.014	x	x	
0100	100mA	250V		600	60	0.025	x	x	
0125	125mA	250V		550	70	0.044	x	x	
0160	160mA	250V		480	80	0.058	x	x	
0200	200mA	250V		390	80	0.1	x	x	
0250	250mA	250V		350	90	0.17	x	x	
0315	315mA	250V		300	95	0.26	x	x	
0400	400mA	250V		250	100	0.32	x	x	
0500	500mA	250V		220	110	0.6	x	x	
0630	630mA	250V		210	135	0.75	x	x	
0800	800mA	250V		160	130	0.98	x	x	
1100	1.00A	250V		155	155	2.1	x	x	
1125	1.25A	250V		145	185	3.2	x	x	
1160	1.60A	250V		130	210	4.5	x	x	
1200	2.00A	250V		125	250	7.5	x	x	
1250	2.50A	250V		120	300	14	x	x	
1315	3.15A	250V		110	350	22	x	x	
1400	4.00A	250V		100	400	36	x	x	
1500	5.00A	250V		95	475	59	x	x	
1630	6.30A	250V		90	570	110	x	x	
1800	8.00A <sup>1</sup>	250V		80	1000	150			x
2100	10.00A <sup>1</sup>	250V		90	1250	280			x

Note: 1.00 means the number one with two decimal places. 1,000 means the number one thousand.

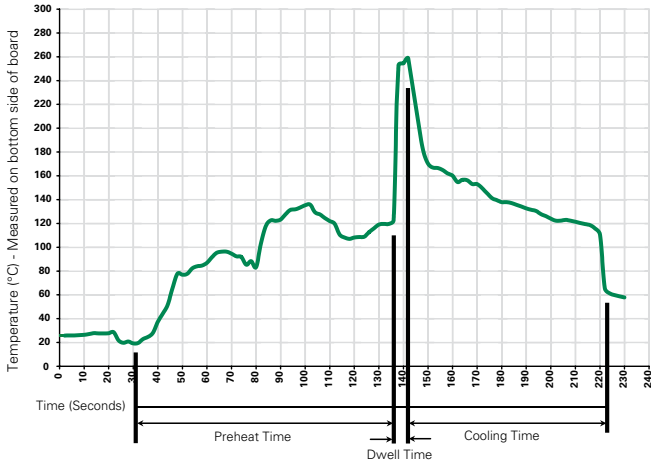
## Temperature Rerating Curve



## Average Time Current Curves



**Soldering Parameters - Wave Soldering**



**Recommended Process Parameters:**

Wave Parameter	Lead-Free Recommendation
<b>Preheat:</b> (Depends on Flux Activation Temperature)	(Typical Industry Recommendation)
Temperature Minimum:	100° C
Temperature Maximum:	150° C
Preheat Time:	60-180 seconds
<b>Solder Pot Temperature:</b>	260° C Maximum
<b>Solder Dwell Time:</b>	2-5 seconds

**Recommended Hand-Solder Parameters:**

Solder Iron Temperature: 350° C +/- 5° C  
Heating Time: 5 seconds max.

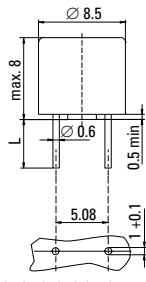
**Note: These devices are not recommended for IR or Convection Reflow process.**

**Product Characteristics**

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

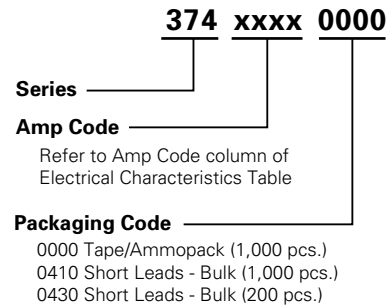
<b>Operating Temperature</b>	-40°C to +85°C (consider de-rating)
<b>Climatic Category</b>	-40°C/+85°C/21 days (EN 60068-1,-2-1,-2-2,-2-78)
<b>Stock Conditions</b>	+10°C to +60°C RH ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Vibration Resistance</b>	24 cycles at 15 min. each (EN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

**Dimensions**



Holes in PCB  
Long Leads (L=18.8mm)  
Short Leads (L=4.3mm)

**Part Numbering System**



**Packaging**

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>374 Series</b>				
Tape & Ampopack	N/A	1,000	0000	N/A
Short Leads	N/A	1,000	0410	N/A
Short Leads	N/A	200	0430	N/A