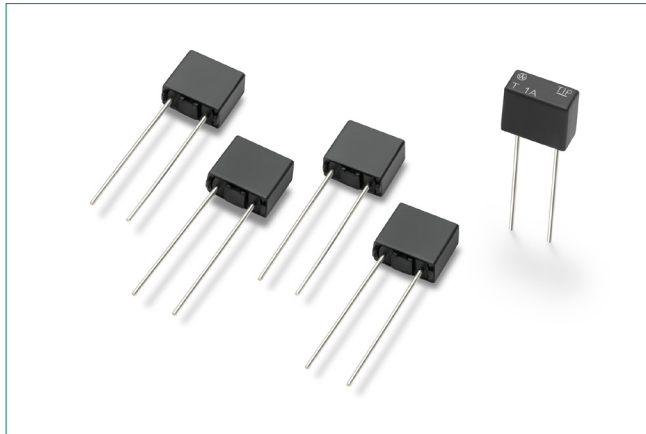


# 385 Series

## TE5® Telecom Interface Protector Fuse



### Description

The 385 Series TE5R Telecom Interface Protector Fuses are 125V rated, Time-Lag type and designed in accordance to UL 248-14.

### Features & Benefits

- Surge proof for telecom applications
- Reduced PCB space requirements
- Highly defined cut-off times
- Low internal resistance
- Irreversible physical separation
- Flame resistant encapsulated casing
- Available from 0.350A to 1.5A

### Additional Information



Resources



Accessories



Samples

### Applications

- Battery chargers
- Consumer Electronics
- Telecom
- Power supplies
- Industrial controllers

### Agency Approvals

Agency	Agency File Number	Ampere Range
	E67006	0.350A - 1.5A
	NA	0.350A - 1.5A

### Electrical Characteristics

% of Ampere Rating	Opening Time
100%	2 Hours,
300%	300 ms., Min.; 5 sec., Max.

### Electrical Characteristics

Amp Code	Rated Current	Voltage Rating	Breaking Capacity	Nominal Cold Resistance (Ohms)	Voltage Drop 1.0xI <sub>N</sub> max. (mV)	Power Dissipation 1.0xI <sub>N</sub> max. (mW)	Melting Integral 10xI <sub>N</sub> max. (A <sup>2</sup> s)	Surge Amplitude (A) <sup>1</sup>			Agency Approvals	
								FCC	Bellcore	ITU	UK CA	UL US
0350	350mA	125V	50A @125VAC	0.4320	250	90	0.78	32	19	36	x	x
0500	500mA	125V		0.2570	220	110	1.81	48	26	61	x	x
0800	800mA	125V		0.1290	170	130	4.35	80	42	67	x	x
1100	1.00A	125V		0.0830	140	130	6.75	100	52	67	x	x
1125	1.25A	125V		0.0610	125	140	9.84	128	65	67	x	x
1150	1.50A	125V		0.0495	120	170	11.52	155	78	67	x	x

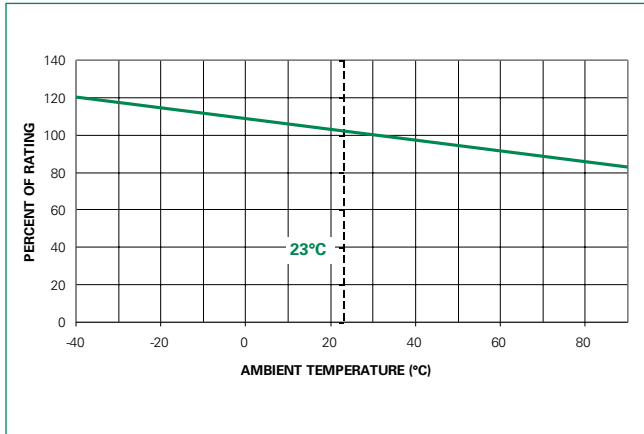
<sup>1</sup> FCC 47 Part 68: Minimum pulse load quantity is 2 pulses at a test generator output of 800V and 10x560µs waveform.  
 ITU-T K.20: Minimum pulse load quantity is 30 pulses at a test generator output of 1000V, 67A and 10x700µs waveform.  
 Bellcore GR-1089: Minimum pulse load quantity is 50 pulses at a test generator output of 1000V and 10x1000µs.

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

# 385 Series

## TE5® Telecom Interface Protector Fuse

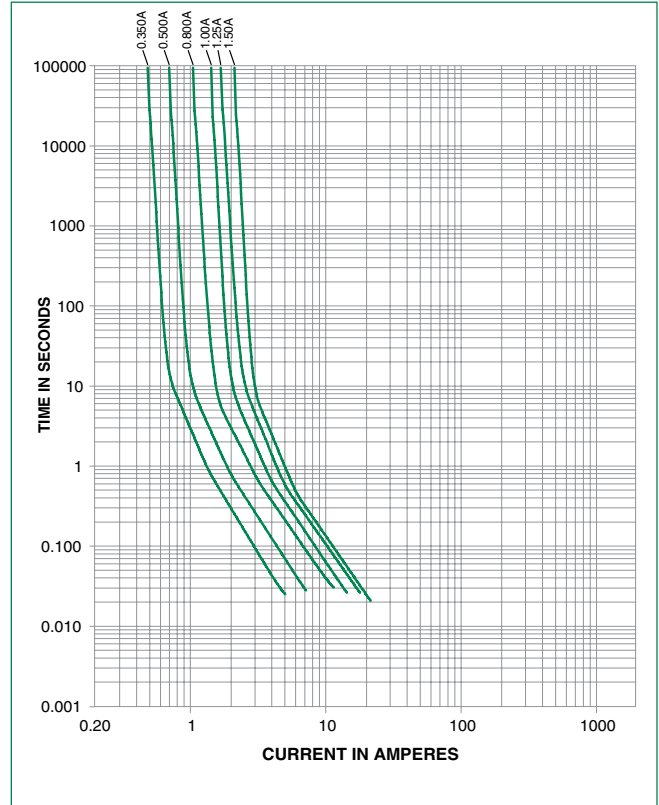
### Temperature Re-rating Curve



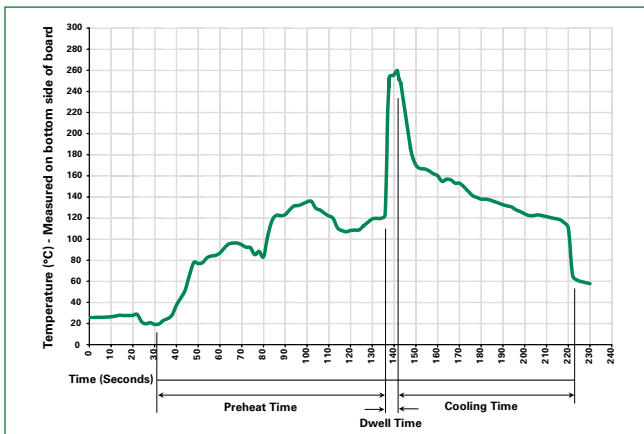
**Note:**

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

### Average Time Current Curves



### Soldering Parameters - 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

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

# 385 Series

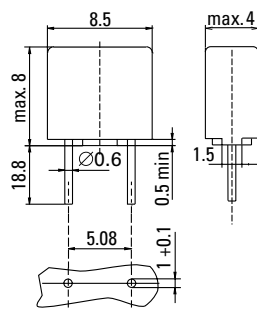
## TE5<sup>®</sup> Telecom Interface Protector Fuse

### Product Characteristics

<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94V-0 Round Pins: Copper, Tin-plated
<b>Lead Pull Strength</b>	10N (IEC 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 re-rating)
<b>Climatic Category</b>	-40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-2-78) +10°C to +60°C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Stock Conditions</b>	24 cycles at 15 min. each (IEC 60068-2-6)
<b>Vibration Resistance</b>	10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration

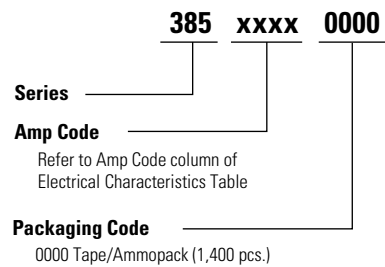
### Dimensions



Holes in the printed circuit board

Dimensions (mm)  
Long Leads (L=18.8mm)

### Part Numbering System



### Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Taping Width
<b>385 Series</b>				
Tape & Ammopack	N/A	1,400	0000	N/A

**Disclaimer Notice** - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: [www.littelfuse.com/disclaimer-electronics](http://www.littelfuse.com/disclaimer-electronics).