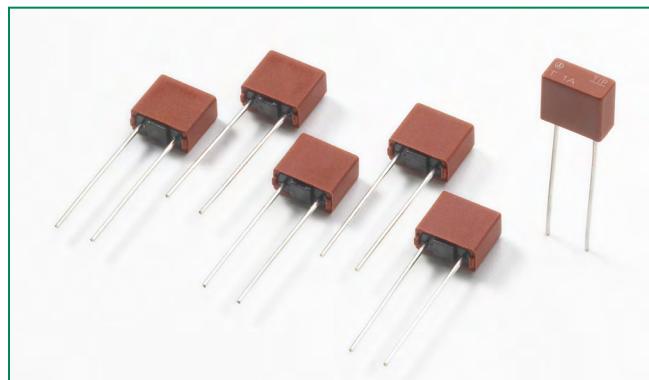


## 385 Series, TE5® Telecom Interface Protector Fuse



## Description

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

## Features

- 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

## Agency Approvals

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

## Additional Information



Datasheet



Resources



Samples

## Applications

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

## 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	
0350	350mA	125V	50A @125VAC	0.4320	250	90	0.78	32	19	36	x
0500	500mA	125V		0.2570	220	110	1.81	48	26	61	x
0800	800mA	125V		0.1290	170	130	4.35	80	42	67	x
1100	1.00A	125V		0.0830	140	130	6.75	100	52	67	x
1125	1.25A	125V		0.0610	125	140	9.84	128	65	67	x
1150	1.50A	125V		0.0495	120	170	11.52	155	78	67	x

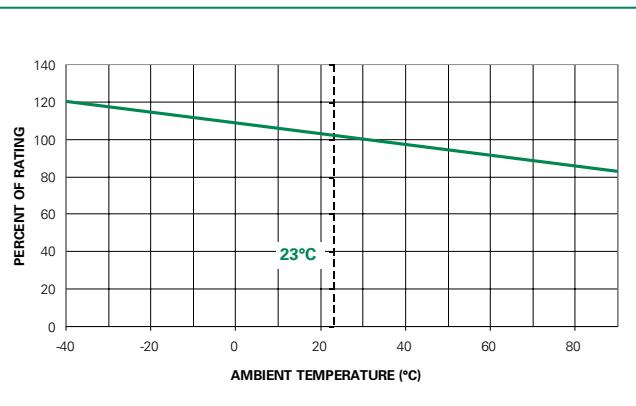
<sup>1</sup> FCC 47 Part 68: Minimum pulse load quantity is 2 pulses at a test generator output of 800V and 10x560µs waveform.

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.

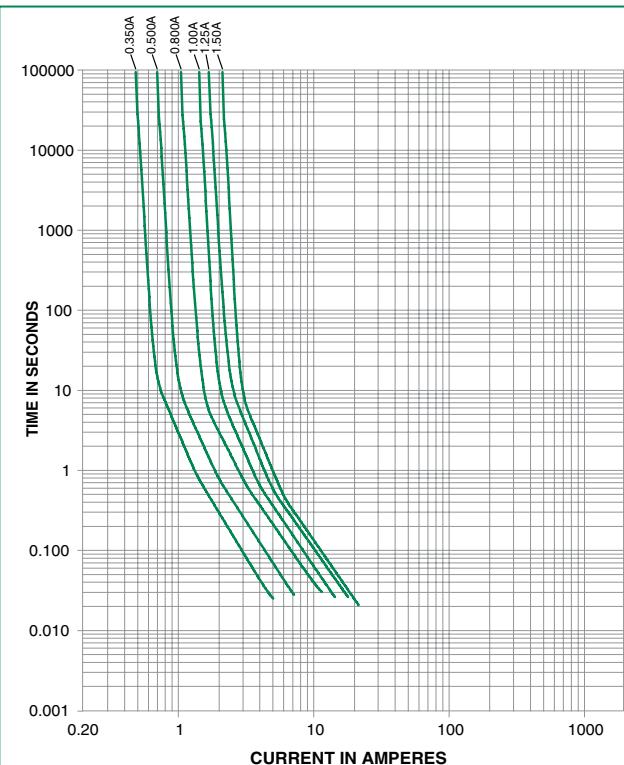
### Temperature Re-rating Curve



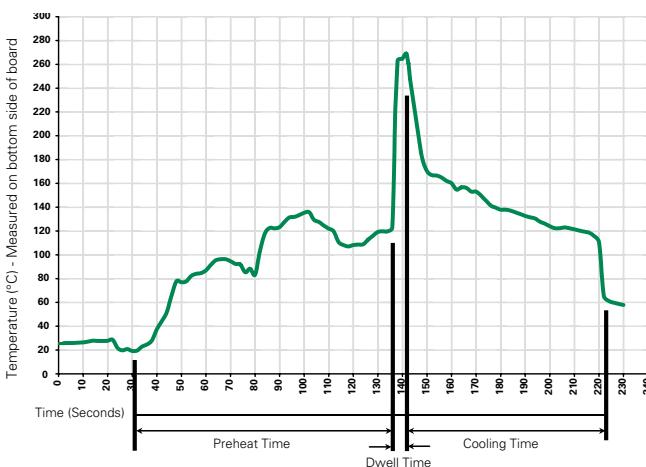
Note:

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
<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

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

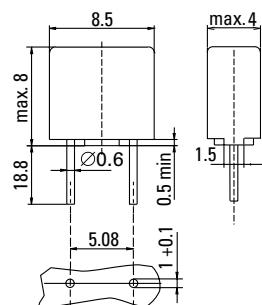
# Radial Lead Fuses

TE5® > Transient Tolerant Fuse > 385 Series

## Product Characteristics

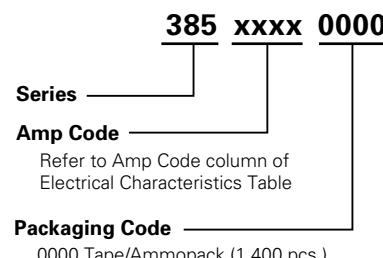
<b>Materials</b>	Base/Cap: Brown Thermoplastic Polyamide PA 6.6, UL 94V-0 Round Pins: Copper, Tin-plated	<b>Operating Temperature</b>	-40°C to +85°C (consider re-rating)
<b>Lead Pull Strength</b>	10N (IEC 60068-2-21)	<b>Climatic Category</b>	-40°C to +85°C/21 days (IEC 60068-1,-2-1,-2-2,-2-78)
<b>Solderability</b>	260°C, ≤ 3s. (Wave) 350°C, ≤ 1s. (Soldering Iron)	<b>Stock Conditions</b>	+10°C to +60°C RH, ≤ 75% yearly average, without dew, maximum value for 30 days-95%
<b>Soldering Heat Resistance</b>	260°C, 10s. (IEC 60068-2-20) 350°C, 3s. (Soldering Iron)	<b>Vibration Resistance</b>	24 cycles at 15 min. each (IEC 60068-2-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration

## Dimensions



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

## Part Numbering System



Packaging Code  
0000 Tape/Ammopack (1,400 pcs.)

## Packaging

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