

ROHS 🗭 HF 808 Series, TE5®, Fast-Acting Fuse

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Agency Approvals				
Agency	Agency File Number	Ampere Range		
c 🔊 us	E67006	1.00A 2.00A 3.15A 5.00A	1.60A 2.50A 4.00A	

Description

The 450 VTE5® Fast-Acting Fuse is designed to enable compliance with the RoHS Directive. This product is fully compatible with lead-free solder alloy. The device is UL Recognized for protecting components or internal circuits against overcurrent condition at high DC applications.

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Features

- Lead-free
- Reduce PCB space requirements
- Direct solderable or plug-in versions
- Internationally approved
- Low internal resistance

Applications

- AC/DC power adaptors
- High voltage DC/DC converters
- Battery chargers
- Consumer electronics

RoHS compliant

Shocksafe casing

Vibration resistant

Ideal for high voltage

Halogen-free

Antimony-free

DC applications

Electrical Characteristics

% of Ampere Rating	OpeningTime
100%	4 Hours, Minimum
200%	10 Seconds, Maximum

Electrical Characteristics

Ampere Amp Rating Code (A)	Max Voltage Rating (V)		Interrupting Rating		Nominal Cold	Nominal Melting	Max Voltage	Agency Approvals		
	AC DC		AC	DC		Resistance	l²t (10In -	Drop (mV)	c 🔁 us	
	AC	DC	AC	Min	Max	(Ohms)	A ² sec)		C 7 VS	
1.00	1100	250	450		300A	10kA	0.252	0.0066	510	х
1.60	1160	250	450		300A	10kA	0.129	0.0344	400	х
2.00	1200	250	450		300A	10kA	0.094	0.0610	342	х
2.50	1250	250	450	100A @ 250V	300A	10kA	0.069	0.0898	300	х
3.15	1315	250	350		300A	10kA	0.052	0.2191	270	х
4.00	1400	250	250		300A	10kA	0.035	0.5445	240	х
5.00	1500	250	250		300A	10kA	0.026	1.1584	215	х

Notes:

1. Cold resistance measured at less than 10% of rated current at 23°C.

2. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperature.

3. Agency Approval Table Key: X=Approved or Certified, P=Pending.

Subminiature Fuses

TE5[®] > Fast-Acting > 808 Series



Temperature Derating Curve

Average Time Current Curves





Soldering Parameters - Wave Soldering



Recommended Process Parameters:

Wave Parameter	Lead-free Recommendation		
Preheat:	(Typical Industry Recommendation)		
(Depends on Flux Activation Temperature) 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.



Subminiature Fuses TE5[®] > Fast-Acting > 808 Series

Product Characteristics

Materials	Overmolding: Black Thermoplastic Polyphenylene Sulfide, UL 94 V-0 Round Pins: Copper, Tin-plated		
Product Marking	Body: Brand Logo, Current Rating, Characteristic "F", Product Series No., Agency Aproval		
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 +125°C with proper derating		
Climatic Category	-40°C to +85°C/21 days (EN 60068-1,-2-1,-2-2,-2-78)		
Stock Conditions	+10°C to +60°C RH 75% yearly average, without dew, maximum value of 30 days-95%		
Vibration Resistance	24 cycles at 5min. each (EN60068-2-6) 10 - 60Hz at 0.75mm amplitude 60 - 2000Hz at 10g acceleration		

Dimensions



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

7.5mm Pitch

Part Numbering System



Packaging							
Packaging Option	caging Option Packaging Specification Quantity Quantity & Packaging Code			Taping Width			
808 Series							
Tape & Ammopack	N/A	1,000	0000	N/A			
Short Leads	N/A	1,000	0440	N/A			
7.5 mm Pitch	N/A	1,000	0075	N/A			

