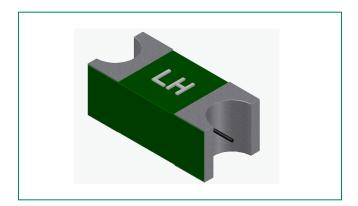
Surface Mount Fuses TFF Fuse > 470SNP Series > 1206 Fast Acting

470SNP Series Fuse





Agency Approvals

Agency	Agency File Number	Ampere Range	
c UL us	E10480	0.500 - 2A	

Description

The 470SNP series is a family of 125V rated high energy SMD fuses, perfect for space constrained applications. It offers the standard Nano Fuse circuit protection capability with a very small 1206 foot print.

This product is RoHS compliant, Halogen-Free and 100% Pb-Free with guaranteed operating temperature of up to 125°C.

Features

- Very Small 1206 Footprint
- 125V Voltage Rating
- Fast-Acting
- Pb-Free, RoHS Compliant and Halogen-Free
- Wide Operating temperature range of -55°C to 125°C

ENERGY STAR® Surge Immunity test compliant (100kHz Ring Wave, 2.5kV, 7-strikes common and differential modes) - 1.5A and above ampere rating only

Applica

- % of Ampere
 Rating

 Opening Time

 Hours, Minimum

 Soow

 Seconds, Maximum
- Applications
- LED Lighting
- LCD/LEDTVsNotebooks/PCs
- Gaming Consoles
- Battery Charging Circuit
 Protection
- Power Supply Units
- Telecom Systems
- White Goods

Electrical Characteristic

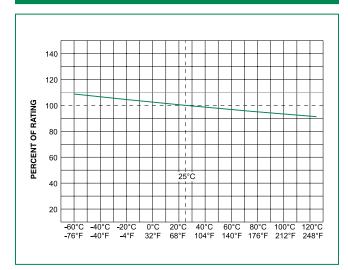
Electrical Characteristics for Series

Ampere	Ampere			Nominal	Niamain al Malain d	Agency Approvals
Rating (A)	Amp Code	Max Voltage Rating (V)	Interrupting Rating	Cold Resistance (Ohms)	Nominal Melting I ² t (A ² sec.)	, cUL)us
0.500	.500	125V	50A @ 125VDC 50A @ 125VAC 300A @ 32VDC	0.5455	0.02874	X
1.00	001.	125V		0.2242	0.14785	X
1.25	1.25	125V		0.1637	0.30269	X
1.50	01.5	125V		0.1263	0.45970	X
2.00	002	125V		0.1004	0.75625	X

Note: I2t values stated for 8msec opening time.

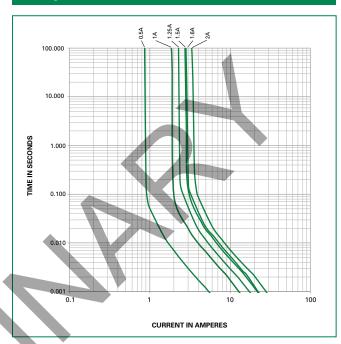


Temperature Rerating Curve



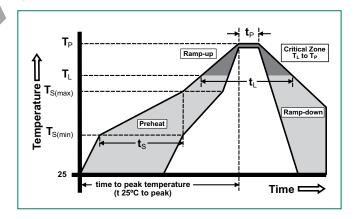
 $\ensuremath{\text{NOTE}}$: Derating depicted in this curve is in addition to the standard derating of 25% for continuous operation.

Average Time Current Curves



Soldering Parameters

Reflow Condition		Pb – free assembly	
Pre Heat	-Temperature Min (T _{s(min)})	150°C	
	-Temperature Max (T _{s(max)})	200°C	
	-Time (Min to Max) (t _s)	60 – 180 seconds	
Average Ramp-up Rate (Liquidus Temp (T _L) to peak)		5°C/second max.	
T _{S(max)} to T _L - Ramp-up Rate		5°C/second max.	
Reflow	-Temperature (T _L) (Liquidus)	217°C	
	-Temperature (t _L)	60 - 90 seconds	
Peak Temperature (T _P)		250+0/-5 °C	
Time within 5°C of actual peak Temperature (t _p)		20 – 40 seconds	
Ramp-down Rate		5°C/second max.	
Time 25°C to peak Temperature (T _P)		8 minutes max.	
Do not exceed		260°C	



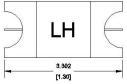
Surface Mount Fuses TFF Fuse > 470SNP Series > 1206 Fast Acting

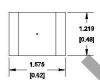
Product Characteristics

Materials	Body: Epoxy Resin Terminations: Cu/Ni/Sn (100% Pb-free)		
Product Marking	Body: Current Rating		
Operating Temperature	−55°C to +125°C		
Solderability	MIL-STD-202		
Insulation Resistance (after opening)	IEC 60127-4 (0.1Mohm Min)		

Thermal Shock	MIL-STD-202, Method 107, Test Condition B, 5 cycles, -65°C to 125°C, 15 minutes @ each extreme		
Mechanical Shock	MIL-STD-202, Method 213B, Test Condition I: De-energized. 100G's peak amplitude, sawtooth wave 6ms duration, 3 cycles XYZ+xyz = 18 shocks		
Vibration	MIL-STD-202, Method 201: 0.03* amplitude, 10-55 Hz in 1 min. 2 hrs. each XYZ = 6hrs (10-55 Hz)		
Moisture Resistance	MIL-STD-202, Method 106, 10 cycles Condition A		
Salt Spray	MIL-STD-202, Method 101, Test Condition B (48 hrs)		
Resistance to Soldering Heat	Method 210, Test Condition B (10 sec at 260°C)		

Dimensions



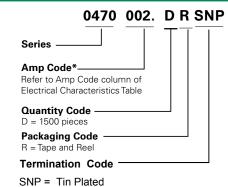


Recommended Pad Layout 3.650 [1.44] 2.050 [0.47] 1,280 [0.50]

Part Marking System

Marking Code	Amp Code		
LF	.500		
LH	001.		
LJ	1.25		
LK	01.5		
LN	002.		

Part Numbering System



Packaging

Packaging Option	Packaging Specification	Quantity	Quantity & Packaging Code	Reel Size
8mm Tape and Reel	EIA-RS-481-1	1500	DR	N/A