

Type 5HT / 5HTP

Time-lag Fuse Series (High - Breaking Capacity)

5 x 20mm Ceramic Tube
RoHS 6 Compliant

HF  5HT / 5HTP Series, 5 x 20mm Time-Lag Fuse



Description

5x20mm Time-Lag surge withstand, high breaking capacity, ceramic body cartridge fuse designed, approved and complied with IEC 60127-2, standard sheet 5.

Features









- High breaking capacity (250V ac @1500A)
- Meet IEC standard 60127-2, Sheet 5
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS6 compliant
- Halogen Free
- Leadfree

Electrical Characteristics (IEC-127-2 STANDARD SHEET 5)

Rated Current	1.5 In		2.1 In		2.75 In		4 In		10 In	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
100mA to 3.15A	1	30	1	80	95	5	10	100		
4A and above	1	30	1	80	150	5	20	100		
	hr.	min.	sec	sec	ms	sec	ms	ms		

In clause 9.2, the test voltage for 5HTP ratings from 1A to 6.3A is 63VDC.

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R.ABILITY
	909875	1A - 6.3A / 250V AC @ 1,500A
	40000505	
	EM232	
	E20624	250mA - 6.3A / 600V AC @150A
		250mA - 10A / 250V AC @1500A
	LR39772	
	JET1037-31003-1008 JET1037-31003-1009 JET1037-31003-1006	1A - 5A / 250V AC @ 1,500A > 5A - 15A / 250V AC @ 1,500A
	2002010207021531	250mA - 6.3A / 250V AC @1500A

Specifications subject to change without notice

Applications

Provide individual protection for components or internal circuits.

- Power Supplies
- Battery charger
- Monitor
- Adapter

LEAD FREE = 

HALOGEN FREE = 

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Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) Max.	Voltage Rating (V)	Interrupting Rating	Melting I2T <10 m Sec (A2 Sec)	Melting I2T @ 10 In (A2 Sec)	Maximum Power Dissipation (W)	Agency Approvals							
									UL	CSA	CCC	S	DVE	IEC	PS E	CE
5HT (P) 250-R	250mA	3.41	1.16	250	1A - 6.3A / 250V AC @ 1,500A 250mA - 6.3A / 600V AC @150A	0.10	0.12	0.34	Y	Y	Y					Y
5HT (P) 315-R	315mA	2.08	0.90	250		0.18	0.22	0.38	Y	Y	Y					Y
5HT (P) 400-R	400mA	1.47	0.73	250		0.28	0.34	0.41	Y	Y	Y					Y
5HT (P) 500-R	500mA	1.03	0.66	250		0.46	0.58	0.48	Y	Y	Y					Y
5HT (P) 630-R	630mA	0.63	0.51	250		0.70	0.90	0.55	Y	Y	Y					Y
5HT (P) 800-R	800mA	0.39	0.40	250		1.1	1.5	0.64	Y	Y	Y					Y
5HT (P) 1-R	1A	0.20	0.25	250		1.7	1.7	0.73	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 1.25-R	1.25A	0.14	0.24	250		3	3	0.81	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 1.6-R	1.6A	0.095	0.19	250		5	6	0.91	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 2-R	2A	0.069	0.17	250		10	11	1.00	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 2.5-R	2.5A	0.047	0.16	250		17	20	1.10	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 3.15-R	3.15A	0.031	0.13	250		31	38	1.20	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 4-R	4A	0.020	0.10	250		56	69	1.40	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 5-R	5A	0.015	0.10	250		101	128	1.50	Y	Y	Y	Y	Y	Y	Y	Y
5HT (P) 6.3-R	6.3A	0.012	0.10	250	181	237	1.70	Y	Y	Y	Y	Y	Y	Y	Y	
5HT (P) 8-R	8A	0.008	0.09	250	8A - 10A / 250V AC @1500A	330	439	2.70	Y	Y					Y	Y
5HT (P) 10-R	10A	0.007	0.09	250	601	812	2.90	Y	Y						Y	Y

Consult manufacturer for other ratings

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Type 5HT / 5HTP

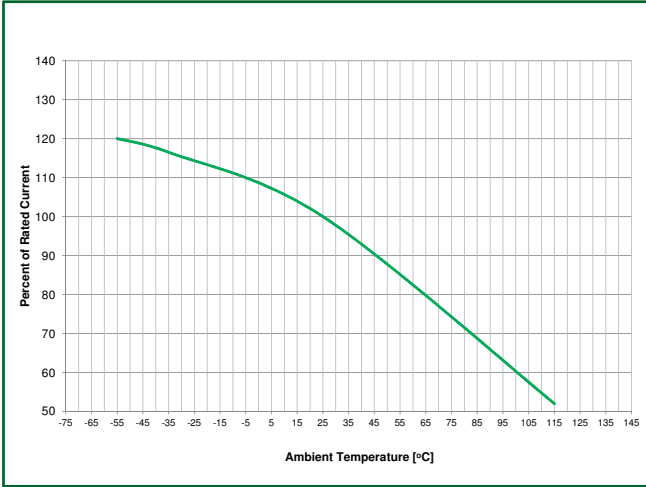
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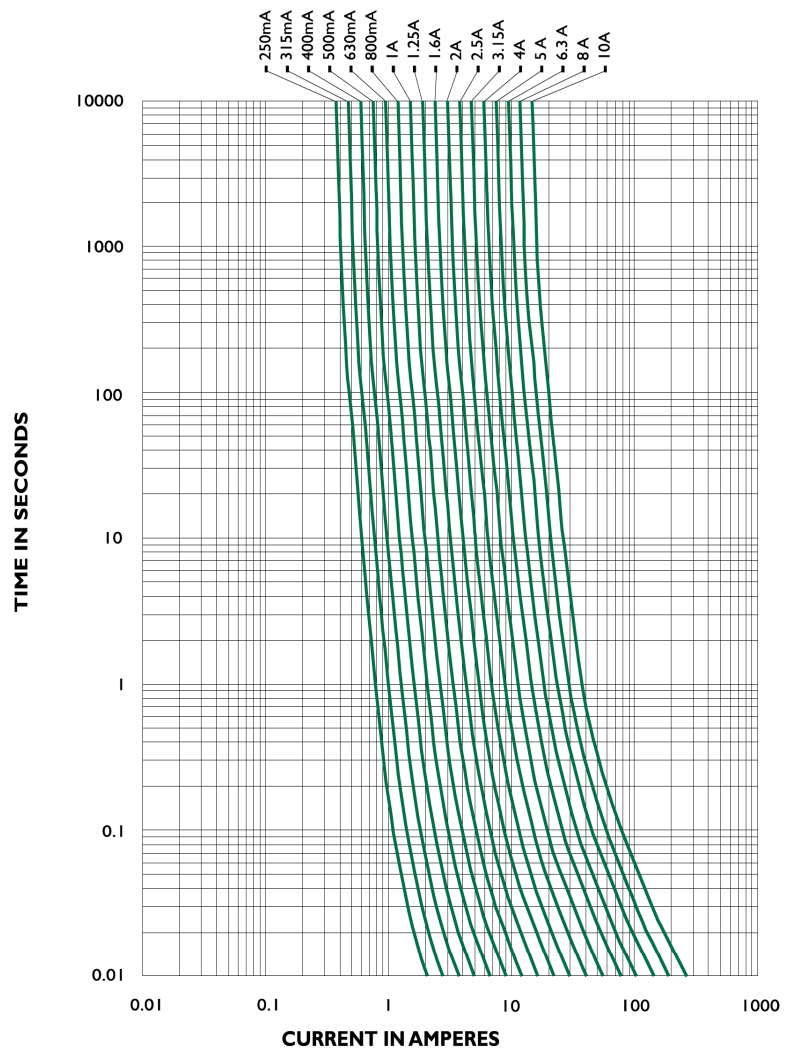
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Temperature Derating Curve



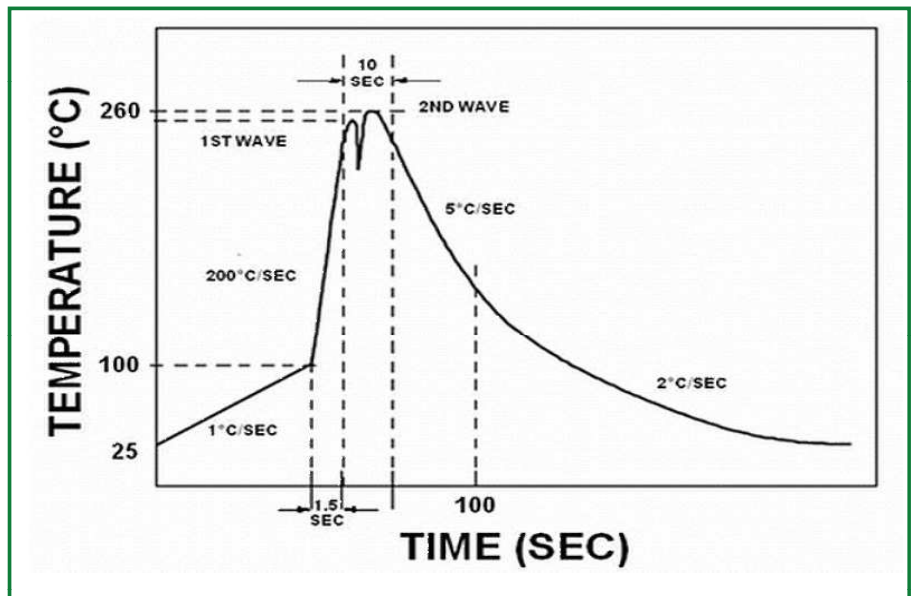
Average Time Current Curve

5HT / 5HTP - TIME CURRENT CHARACTERISTIC CURVE



Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Soldering Parameter	
Average ramp-up rate	200°C / second
Heating rate during preheat	typical 1 - 2°C / second Max. 4°C / second
Final preheat temperature	within 125°C of soldering temperature
Peak temperature T _p	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



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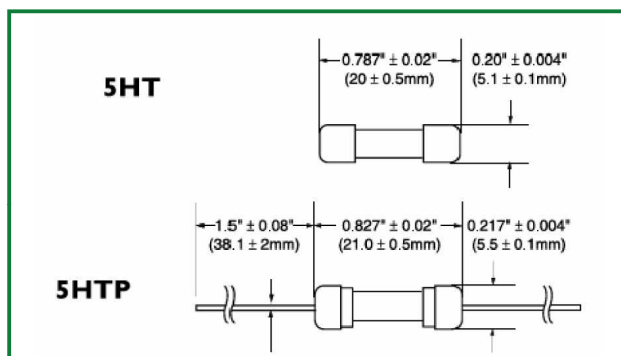
Physical Specifications

Materials	Body : Ceramic
	Cap : Nickel Plated Brass Caps
	Leads: Matte Tin Plated Copper
Marking	On Fuse:
	"bel" , "T" , " Current Rating", "H", "250V",
	"Appropriate Safety Logos", " ✓ "(RoHS 6 compliant)
	On label:
	"bel" , "5HT", or "5HTP", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and " ⚡ ", " Ⓜ "(China RoHS compliant).

Environmental Specifications

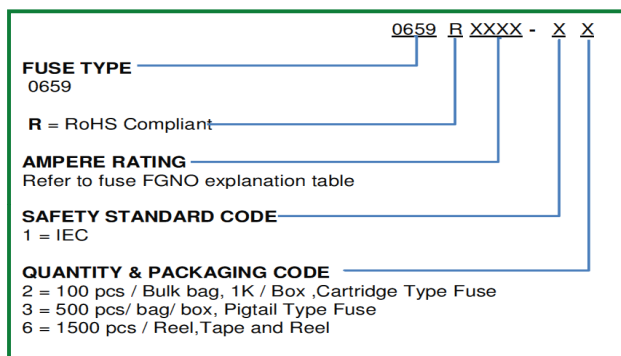
Shock Resistance	MIL-STD-202G, Method 213B, Test Condition I (100 G's peak for 6 milliseconds; Sawtooth Waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test condition B (48 hrs).
Insulation Resistance	MIL-STD-202G, Method 302, Test Condition B (After Opening) 100,000 ohms minimum.
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G Method 210F, Test Condition B.(260+/-5 °C, 10+/-1 sec)
Thermal Shock	MIL-STD-202G, Method 107G, Test Condition B (-65 °C to +125 °C).
Operating Temperature	-55 °C to +125 °C
Terminal Strength	IEC-68-2-21

Mechanical Dimensions



* Ratings 6.3A and less have 0.032" diameter lead;
Ratings 8A and above have 0.040" diameter lead.

Ordering Information



Specifications subject to change without notice

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	100	12	N/A
Bulk (Pigtail Type)	N/A	500	13	N/A
Tape & Reel, 10 mm Pitch	EIA-296-F	1500	16	63

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