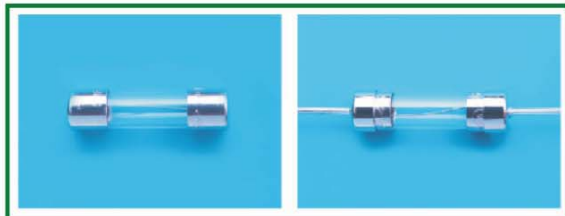


RoHS

bel

5MT Apr2013D

Type 5MT / 5MTP
Medium Blow Fuse Series5 x 20mm Glass Tube
RoHS 6 CompliantHF  **5MT / 5MTP Series, 5 x 20mm Medium Blow Fuse**   **Description**

5x20mm Medium Blow, glass tube body cartridge fuse designed, approved and complied with UL and CSA standard 248-14.

Electrical Characteristics (UL / CSA STD.248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
135%	N/A	1 Hr
200%	N/A	15 Sec
1000%	10 mSec	N/A

Features

- Meet UL and CSA standard 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS6 compliant
- Halogen Free
- Leadfree

Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R.ABILITY
	E20624	100mA - 800mA / 250V AC @35A 1A - 3A / 250V AC @100A 100mA - 5A / 125V AC @10,000A
	LR39772	
	JET 1037-31003-1010 JET 1037-31003-1011	1A - 5A / 125V AC @500A
	JET 1037-31003-1007	>5A - 15A / 125V AC @300A
		100mA - 800mA / 250V AC @35A 1A - 3A / 250V AC @100A 100mA - 5A / 125V AC @10,000A

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 = 

Type 5MT / 5MTP Medium Blow Fuse Series

5 x 20mm Glass Tube
RoHS 6 Compliant



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5MT Apr2013D

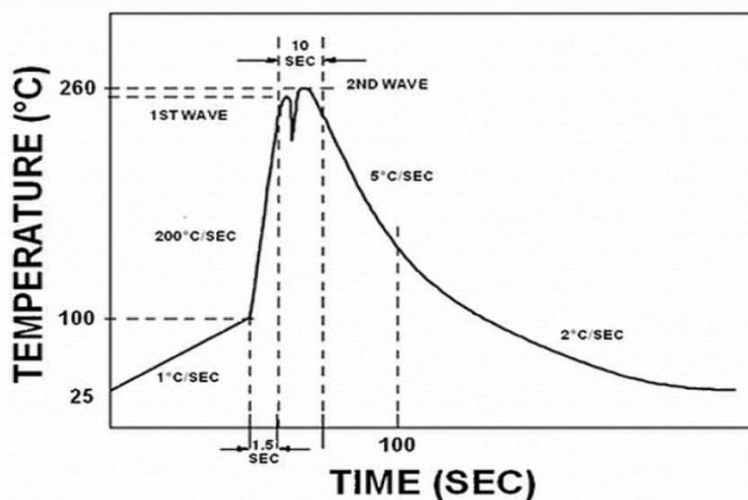
Electrical Specifications

Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) Max.	Voltage Rating (V)	Interrupting Rating	Melting I ² T <10 m Sec (A ² Sec)	Melting I ² T @ 10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals			
									UL	CSA	PSE	CE
5MT (P) 100-R	100mA	11.9	2.02	250	100mA-800mA / 250V AC @35A 1A - 3A / 250V AC @100A 100mA - 5A / 125V AC @10,000A	0.02	0.04	0.30	Y	Y		Y
5MT (P) 125-R	125mA	7.92	1.77	250		0.04	0.07	0.32	Y	Y		Y
5MT (P) 160-R	160mA	4.82	1.33	250		0.06	0.11	0.34	Y	Y		Y
5MT (P) 200-R	200mA	3.11	1.13	250		0.11	0.18	0.36	Y	Y		Y
5MT (P) 250-R	250mA	2.12	0.94	250		0.18	0.30	0.38	Y	Y		Y
5MT (P) 300-R	300mA	1.51	0.80	250		0.31	0.50	0.37	Y	Y		Y
5MT (P) 375-R	375mA	1.07	0.73	250		0.47	0.75	0.40	Y	Y		Y
5MT (P) 500-R	500mA	0.61	0.57	250		0.88	1.40	0.43	Y	Y		Y
5MT (P) 600-R	600mA	0.430	0.44	250		1.5	2.3	0.45	Y	Y		Y
5MT (P) 700-R	700mA	0.340	0.42	250		2.2	2.5	0.48	Y	Y		Y
5MT (P) 750-R	750mA	0.290	0.39	250		2.3	3.5	0.49	Y	Y		Y
5MT (P) 800-R	800mA	0.261	0.36	250		3.8	4.2	0.49	Y	Y		Y
5MT (P) 1-R	1A	0.183	0.33	250		4.2	6.4	0.49	Y	Y	Y	Y
5MT (P) 1.25-R	1.25A	0.124	0.28	250		7.2	11	0.52	Y	Y	Y	Y
5MT (P) 1.6-R	1.6A	0.081	0.23	250		12	18	0.55	Y	Y	Y	Y
5MT (P) 2-R	2A	0.061	0.22	250		20	29	0.59	Y	Y	Y	Y
5MT (P) 2.5-R	2.5A	0.043	0.19	250		35	49	0.65	Y	Y	Y	Y
5MT (P) 3-R	3A	0.036	0.19	250		58	82	0.74	Y	Y	Y	Y
5MT (P) 3.5-R	3.5A	0.029	0.18	250		76	105	0.84	Y	Y	Y	Y
5MT (P) 4-R	4A	0.025	0.18	250		99	136	0.91	Y	Y	Y	Y
5MT (P) 5-R	5A	0.019	0.17	250		167	226	1.10	Y	Y	Y	Y
5MT (P) 6-R	6A	0.014	0.16	250	6A-7A/125V AC @300A	315	428	1.30			Y	Y
5MT (P) 7-R	7A	0.012	0.15	250		750	1059	2.10			Y	Y

Consult manufacturer for other ratings

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.



Type 5MT / 5MTP Medium Blow Fuse Series

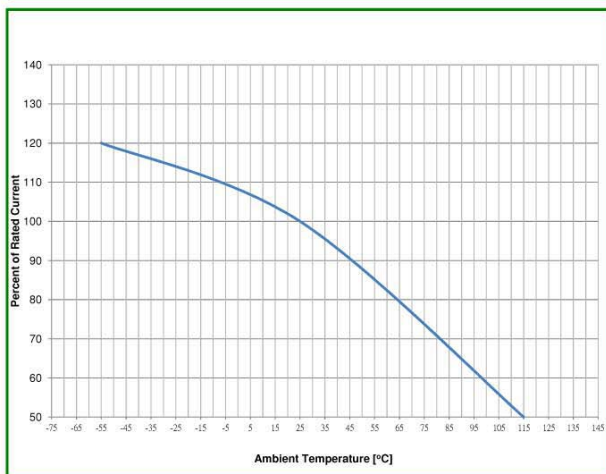
5 x 20mm Glass Tube
RoHS 6 Compliant



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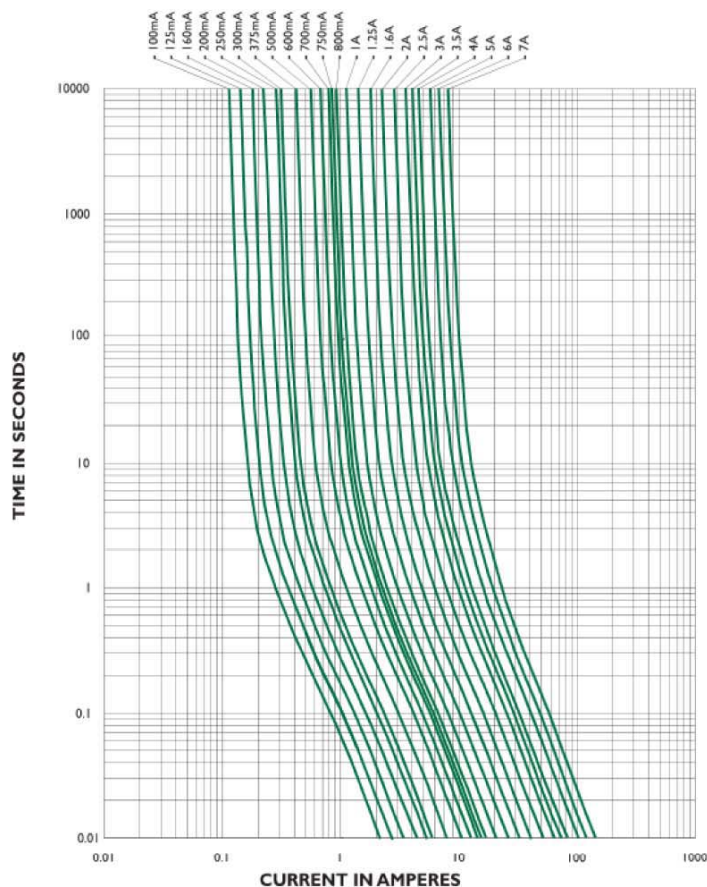
5MT Apr2013C

Temperature Derating Curve



Average Time Current Curve

5MT / 5MTP - TIME CURRENT CHARACTERISTIC CURVE



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 A (After Opening) 10,000 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

Type 5MT / 5MTP Medium Blow Fuse Series

5 x 20mm Glass Tube
RoHS 6 Compliant



bel

5MT Apr2013D

Physical Specifications

Materials	Body : Glass
	Cap : Nickel Plated Brass Caps
	Leads: Matte Tin Plated Copper
Marking	On Fuse:
	"bel", "5MT", "Current Rating", "Voltage Rating",
	"Appropriate Safety Logos", "✓" (RoHS 6 compliant)
	On label:
	"bel", "5MT", or "5MTP", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "M", "e" (China RoHS compliant).

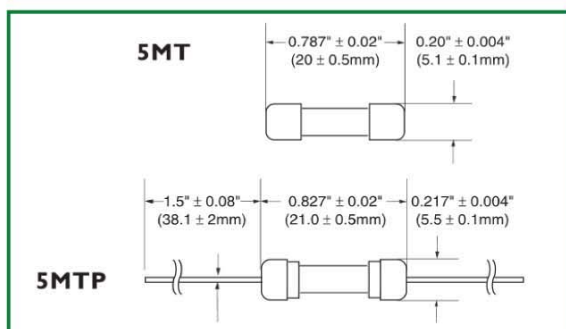
Fuse FGNO Explanation

06XX-[XXXX]-XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/32	0.032	32	0032
1/25	.040	40	0040
1/20	.050	50	0050
1/16	.063	63	0063
8/100	.080	80	0080
1/10	.100	100	0100
1/8	.125	125	0125
15/100	.150	150	0150
	.160	160	0160
2/10	.200	200	0200
1/4	.250	250	0250
3/10	.300	300	0300
	.315	315	0315
3/8	.375	375	0375
4/10	.400	400	0400
1/2	.500	500	0500
6/10	.600	600	0600
	.630	630	0630
7/10	.700	700	0700
3/4	.750	750	0750
8/10	.800	800	0800

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
1-1/2	1.50	1.5	1500
	1.60	1.6	1600
	2.0	2	2000
2-1/4	2.25	2.25	2250
2-1/2	2.5	2.5	2500
	3.0	3	3000
	3.15	3.15	3150
3-1/2	3.5	3.5	3500
	4.0	4	4000
	5.0	5	5000
	6.0	6	6000
	6.3	6.3	6300
	7.0	7	7000
7-1/2	7.5	7.5	7500
	8.0	8	8000
		10	9100
		12	9120
		15	9150
		20	9200
		25	9250
		30	9300

Mechanical Dimensions



Ordering Information

FUSE TYPE	0652
R	R = RoHS Compliant
AMPERE RATING	Refer to fuse FGNO explanation table
SAFETY STANDARD CODE	2 = 125 V, for 3.5A – 7A, glass tube. 3 = 250V for 100mA – 3A, glass tube.
QUANTITY & PACKAGING CODE	1 = Cartridge version, 1K /box 3 = Pigtail Version, 1K bulk pack. 6 = Pigtail version, Tape and Reel, 1500/reel.

* Ratings 5A and less have 0.032" diameter lead;
Ratings 6A and above have 0.040" diameter lead.

Specifications subject to change without notice

Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code	Inside Tape Spacing
Bulk	N/A	1000	33 / 21	N/A
Bulk (Pigtail Type)	N/A	1000	33 / 23	N/A
Tape & Reel, 10 mm Pitch	EIA-296-F	1500	36 / 26	63

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