

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 0697H9100-02

Manufacturer: Bel Fuse Inc.

Package: Cut Tape (CT), Tape & Box (TB)

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0697h9100-02.html>

Request a Quote:

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Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

Type 0697H

Slow Blow Lead Micro Fuse Series

HF  0697H Series

RoHS Compliant

Description

Subminiature, radial lead, High I^2t , time-lag design, rated 350VAC, 72 DC, up to 20A, Approved and complied with UL 248-14.

Features

- High I^2t , High amp ratings to 20A
- Time lag (350 VAC, 72 VDC)
- Meet UL 248-14
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- AEC-Q Compliant
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free and Lead Free
- Meets Bel automotive qualification*
- Largely based on internal AEC-Q test plan

Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery chargers
- Consumer Electronics
- Adapter
- Industrial Controllers

LEAD FREE = 
HALOGEN FREE = 

Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : 100% Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "0697H", "Current Rating", "350V" & "  us"
	On Label :
	"bel", "0697H", "Current Rating", "Voltage Rating", "Interrupting Rating", "  us" and "  ", "  " (China RoHS compliant).



UK
CA
TUV
AEC-Q Compliant

Electrical Characteristics (UL 248-14)

Testing Current	Blow Time	
	Minimum	Maximum
100%	4 Hrs.	N/A
200%	N/A	60 Sec.

Safety Agency Approvals

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	E506667	250mA-3A/350V AC 100V DC	250mA-3A/350V AC @100A 277V AC @150A 100V DC @ 65A 72V DC @ 200A
		3.15A-20A/350V AC 72V DC	3.15A-20A/350V AC @150A 72V DC @200A
	R 50404484 IEC 60127-1: 2006+A1+A2 IEC 60127-7: 2016	315mA, 10A /350V AC 20A /250V AC 315mA, 10A, 20A/72V DC	315mA, 10A /350V AC @150A 20A /250V AC @100A 315mA, 10A, 20A/72V DC @ 200A
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)			

Environmental Specifications

Shock Resistance	MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform)
Vibration Resistance	MIL-STD-202G, Method 201A (10-55 Hz X 3 axis / no load).
Salt Spray Resistance	MIL-STD-202G, Method 101E, Test Condition B (48 hrs.).
Solderability	MIL-STD-202G, Method 208H
Resistance to solder Heat	MIL-STD-202G, Method 210F, Test Condition C. Top Side. (260°C, 20 sec)
Moisture Resistance	MIL-STD-202G, Method 202G, Method 106G
Operating Temperature	-55°C to +125°C

High temperature storage	MIL-STD-202 Method 108
Temperature cycling	JESD22 Method JA-104, Test Condition B
Biased humidity	MIL-STD-202 Method 103, 85°C/85% RH with 10% operating power for 1000 hrs.
Operational life	MIL-STD-202 Method 108, Test Condition D
Resistance to solvents	MIL-STD-202 Method 215
Mechanical shock	MIL-STD-202 Method 213, Test Condition C
Vibration	MIL-STD-202 Method 204
Resistance to soldering heat	MIL-STD-202 Method 210, Test condition B
Thermal shock	MIL-STD-202 Method 107
Solderability	J-STD-002
Board flex(SMD)	AEC-Q200-005
Terminal strength	AEC-Q200-006
Electrical characterization	3 temperature electrical

Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (ohms)	Volt-drop @100% In (Volt) max.	Voltage and Interrupting Ratings	Nominal Melting I²T <10 mSec (A² Sec)	Nominal Melting I²T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals	
									
0697H0250-0X	250mA	0.810	0.280	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	0.17	0.28	0.070	Y	
0697H0315-0X	315mA	0.550	0.260		0.25	0.36	0.082	Y	Y
0697H0400-0X	400mA	0.360	0.220		0.52	0.85	0.088	Y	
0697H0500-0X	500mA	0.260	0.200		1.0	1.3	0.10	Y	
0697H0630-0X	630mA	0.190	0.170		1.4	2.0	0.11	Y	
0697H0800-0X	800mA	0.130	0.150		2.3	3.1	0.12	Y	
0697H1000-0X	1A	0.085	0.130		5.9	7.3	0.13	Y	
0697H1250-0X	1.25A	0.070	0.120		9	10	0.15	Y	
0697H1600-0X	1.6A	0.050	0.100		12	14	0.16	Y	
0697H2000-0X	2A	0.036	0.090		23	27	0.18	Y	
0697H2500-0X	2.5A	0.027	0.090		38	43	0.23	Y	
0697H3000-0X	3A	0.022	0.090		55	63	0.27	Y	
0697H3150-0X	3.15A	0.021	0.090		55	63	0.28	Y	
0697H4000-0X	4A	0.016	0.080		81	92	0.32	Y	
0697H5000-0X	5A	0.013	0.080		122	133	0.40	Y	
0697H6300-0X	6.3A	0.010	0.080		169	187	0.50	Y	
0697H8000-0X	8A	0.007	0.080		273	303	0.64	Y	
0697H9100-0X	10A	0.0055	0.080		398	458	0.80	Y	
0697H9100-12							Y	Y	
0697H9120-0X	12A	0.0047	0.090		303	457	1.08	Y	
0697H9150-0X	15A	0.0035	0.090		382	464	1.35	Y	
0697H9160-0X	16A	0.0033	0.090		545	627	1.44	Y	
0697H9200-0X	20A	0.0026	0.090		937	1048	1.80	Y	
0697H9200-12							Y	Y	

Consult manufacturer for other ratings
XX - Packaging code (see "ordering information")

Temperature Derating Curve



Average Time Current 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 Tp	260°C
Time within +0°C / -5°C of actual peak temperature	10 seconds
Ramp-down rate	5°C / second max.



Type 0697H

4 / 4

Fuse FGNO Explanation

0697 H [XXXX] X XX

0697H=0697H; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]
1/4	0.250	250	0250
	.315	315	0315
4/10	.400	400	0400
1/2	.500	500	0500
	.630	630	0630
8/10	.800	800	0800

Fraction	Decimal	Amps	Bel FGNO[XXXX]
	1.0	1	1000
1-1/4	1.25	1.25	1250
	1.60	1.6	1600
	2.0	2	2000
2-1/2	2.5	2.5	2500
	3.0	3	3000
	3.15	3.15	3150
	4.0	4	4000
	5.0	5	5000
	6.3	6.3	6300
	8.0	8	8000
		10	9100
		12	9120
		15	9150
		16	9160
		20	9200

Mechanical Dimensions



Ordering Information



Packaging

Packaging Option	Packaging Specification	Quantity	Packaging Code
Bulk / bag, 1000 / box	N/A	1000	01 , 05
12.7 mm pitch, On Tape / box	IEC-286-2	1000	02 , 12



Specifications subject to change without notice

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