

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: 0697W1600-05

Manufacturer: Bel Fuse Inc.

Package: Bulk

Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0697w1600-05.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 0697W

Time Lag Radial Lead Micro Fuse Series

HF Pb 0697W Series

RoHS Compliant

Description

Sub-miniature, time lag type, 350VAC, 72VDC rated fuses designed, approved and complied with IEC 60127-3, standard sheet 4.

Features

- Time lag (350 VAC, 72 VDC)
- Meet IEC standard 60127-3, sheet 4
- 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", "0697W", "T", "Current Rating", "350V" & "Appropriate Safety Logos"
	On Label :
	"bel", "0697W", "T", "Current Rating", "Voltage Rating", "Interrupting Rating", "Appropriate Safety Logos" and "  , "  "(China RoHS compliant).

Electrical Characteristics (IEC-127-3 STANDARD SHEET 4)

Rated Current	1.5In		2.1In		2.75In		4In		10In	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1A to 6.3A inclusive	1 hour	2 min.	400 ms	10 sec	150 ms	3 sec	20 ms	150	20	150

Safety Agency Approvals

Safety Agency	Safety Agency Certificate	Ampere Rating/ Voltage Rating	Ampere Range / Volt @ I.R. ability*
	40039412	1A-6.3A/350Vac 72Vdc	1A-1.6A/350V ac @ 50A 2A-6.3A/350V ac @ 65A 1A-6.3A/250V ac @ 65A 1A-6.3A/72V dc @ 100A
	PSE24022928 PSE24022929		1A-2A/350V ac @ 50A 2.5A-6.3A/350V ac @ 100A 1A-6.3A/72V dc @ 100A
	E506667		1A-2A/350V ac @65A 2.5A-6.3A/350V ac @ 100A 1A-1.6A/72V dc @ 65A 2A-6.3A/72V dc @ 100A
	Self-declaration No: 2024960207000004		1A-2A/250V ac @ 50A 1A-2A/350V ac @ 50A 2.5A-6.3A/250V ac @ 100A 2.5A-6.3A/350V ac @ 100A 1A-6.3A/72V dc @ 100A
*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 I ² T <10 mSec (A ² Sec)	Nominal Melting I ² T @10 In (A ² Sec)	Maximum Power Dissipation (W)	Agency Approvals				
												
0697W1000-XX	1A	0.085	0.115	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	5.8	7.6	0.44	Y	Y	Y	Y	Y
0697W1250-XX	1.25A	0.064	0.110		9	12	0.56	Y	Y	Y	Y	Y
0697W1600-XX	1.6A	0.045	0.100		15	17	0.60	Y	Y	Y	Y	Y
0697W2000-XX	2A	0.032	0.090		26	30	0.63	Y	Y	Y	Y	Y
0697W2500-XX	2.5A	0.025	0.087		45	51	0.70	Y	Y	Y	Y	Y
0697W3150-XX	3.15A	0.018	0.083		66	75	0.88	Y	Y	Y	Y	Y
0697W4000-XX	4A	0.014	0.080		98	107	0.98	Y	Y	Y	Y	Y
0697W5000-XX	5A	0.009	0.075		94	108	0.75	Y	Y	Y	Y	Y
0697W6300-XX	6.3A	0.007	0.075		101	109	0.98	Y	Y	Y	Y	Y

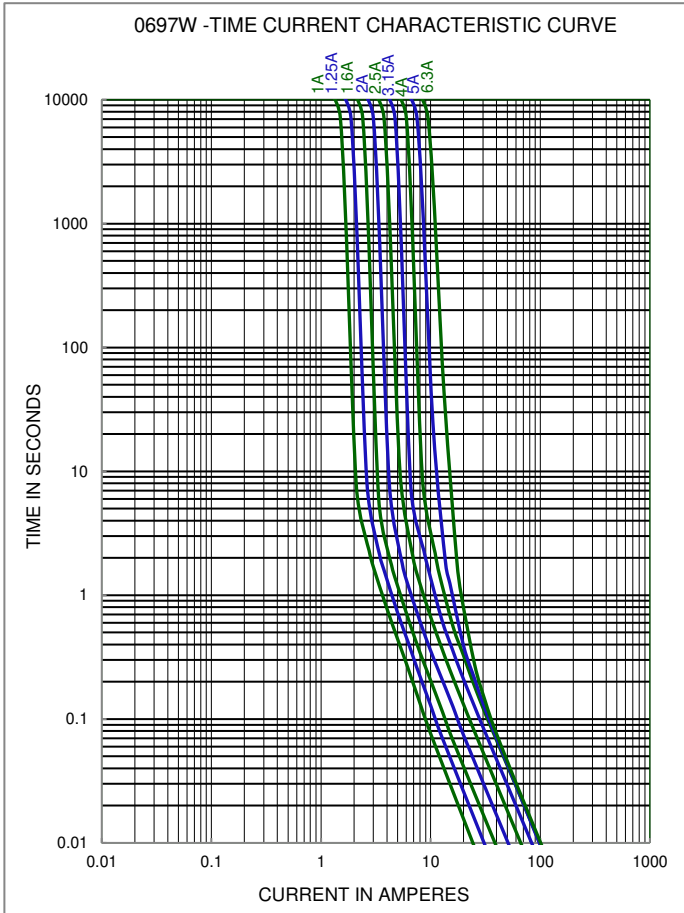
Consult manufacturer for other ratings

XX - Packaging code (see "ordering information")

Temperature Derating Curve

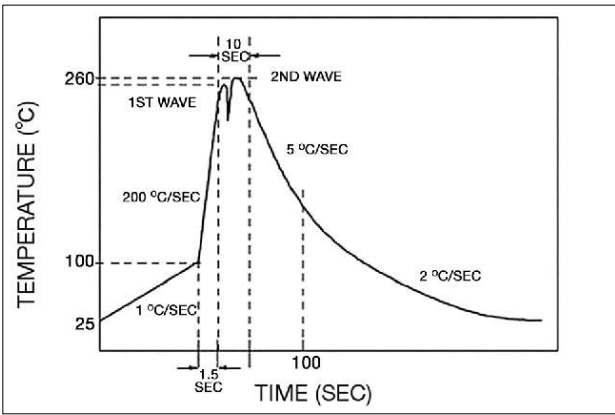


Average Time Current Curve



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



Type 0697W

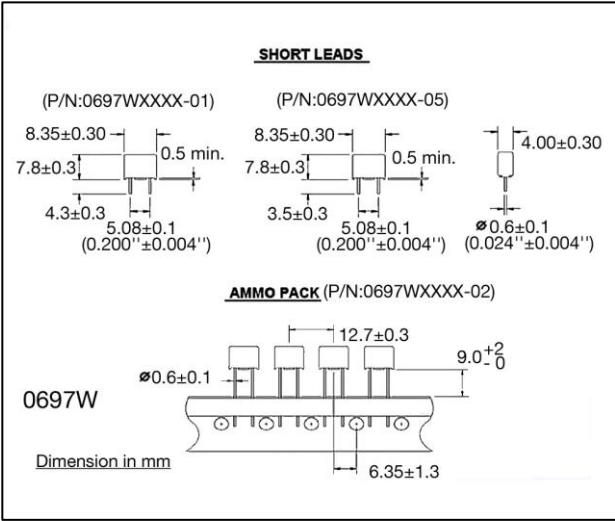
Fuse FGNO Explanation

0697 W [XXXX] X XX

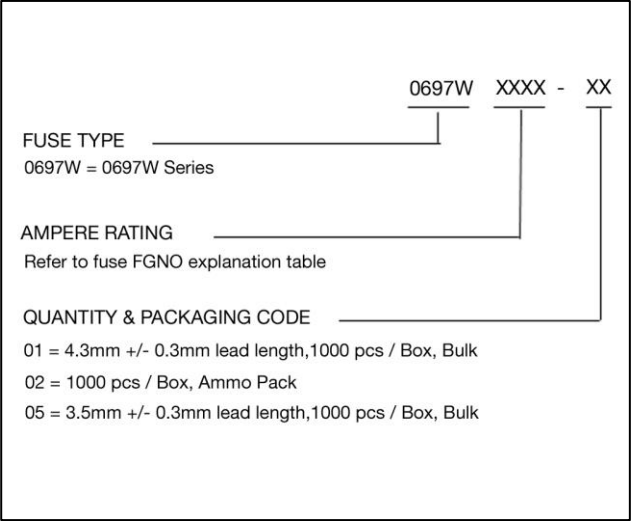
0697W=0697W; [XXXX]=Ampere Rating; XX=See Ordering Information as below

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
	3.15	3.15	3150
	4.0	4	4000
	5.0	5	5000
	6.3	6.3	6300

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