

HF 6 0698Q Series

RoHS 2 Compliant

Description

Radial lead, quick act type, with enhanced voltage ratings (350VAC; 140VDC) and Breaking Capacity. Designed and Certified to UL 248-14.

Features

- Enhanced breaking capacity
- Enhanced operating rated voltage-350VAC; 140VDC
- AEC-Q Compliant
- RoHS 2 compliant
- Halogen Free
- Lead Free
- Meets Bel automotive qualification*
 - * Largely based on internal AEC-Q test plan

Applications

Provide individual protection for components or internal circuits.

- Lighting appliance
- Telecom products
- Battery charger
- Power supply
- Monitors
- Adapter

Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
Materials	Pins : Matte Tin Plated Copper
	On Fuse :
Marking	"bel", "0698Q", "Current Rating", ".350V" & "C W us " On Label :
Ű	"bel", "0698Q", "Current Rating", "Voltage Rating", "Interrupting Rating", " CNUS" and " , " (China RoHS compliant).

Electrical Characteristics (UL / CSA STANDARD 248-14) **Safety Agency Approvals**

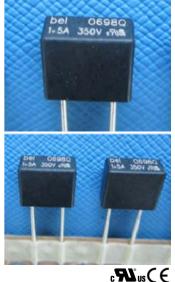
Tari	Blow Time		
Testing current	Minimum	Maximum	
100%	4 Hrs.	N/A	
200%	N/A	5 Sec	

Safety Agency	Safety Agency Certificate	Voltage Rating (V)	Ampere Range / Volt @ I.R. ability*		
c RL °us	E20624	1.5A-6.3A/350V AC 140V DC	1.5A-6.3A/350V AC @ 100A 140V DC @ 150A		
*I.R.= Interrupting Rating = Short Circuit Rating(Amps)					



Specifications subject to change without notice

belfuse.com/circuit-protection



AEC-Q Compliant

LEAD FREE = HALOGEN FREE = HF



Type 0698Q

Environmental Specifications

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℃ to +125℃		

High temperature storage	MIL-STD-202 Method 108
Temperature cycling	JESD22 Method JA-104, Test Condition B
Biased humidity	MIL-STD-202 Method 103, 85C/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		n Interrupting	Melting I ² T <10 mSec (A ² Sec)	Melting I²T @10 In (A² Sec)	Maximum Power Dissipation (W)	Agency Approvals
		(ohms)	(Volt) max.	Ratings	(A 000)			c RL us
0698Q1500-XX	1.5A	0.057	0.17		0.64	0.61	0.18	Y
0698Q2000-XX	2A	0.039	0.15		1.20	1.30	0.25	Y
0698Q2500-XX	2.5A	0.028	0.12	See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings	2.59	2.50	0.25	Y
0698Q3150-XX	3.15A	0.022	0.11		4.90	4.96	0.31	Y
0698Q4000-XX	4A	0.016	0.10		3.95	4.74	0.35	Y
0698Q5000-XX	5A	0.012	0.098		6.04	7.25	0.42	Y
0698Q6300-XX	6.3A	0.009	0.091		12.66	14.92	0.47	Y

Consult manufacturer for other ratings

XX - Packaging code (see "ordering information")



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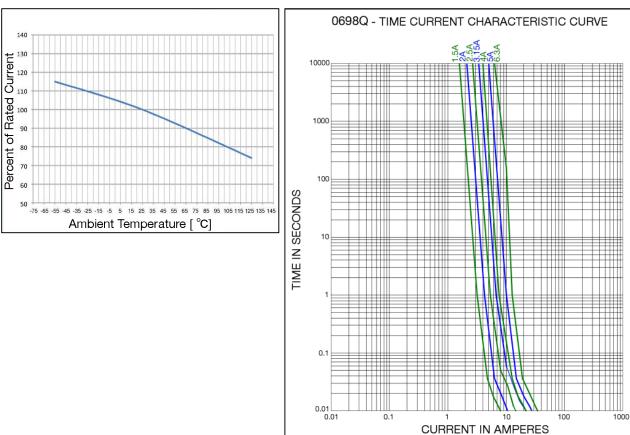
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Type 0698Q

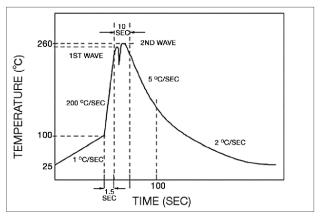
Temperature Derating Curve

Average Time Current Curve



Soldering Parameters

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





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Rev. 0698Q Jan2019

Fuse FGNO Explanation 0698 Q [XXXX] X XX 0698Q=0698Q; [XXXX]=Ampere Rating; XX=See Ordering Information as below

Fraction	Decimal	Amps	Bel FGNO[XXXX]
1-1/2	1.50	1.5	1500
	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

Ordering Information

Mechanical Dimensions

SHORT LEADS 0698Q XXXX - XX (P/N:0698QXXXX-01) (P/N:0698QXXXX-05) 8.35±0.10 + 8.35±0.10+ + 4.00±0.10 FUSE TYPE -0.5 min 0.5 min 7.7±0.2 7.7±0.2 Γ 0698Q = 0698Q Series 3.5±0.3 + 4.3±0.3→ 5.08±0.1 (0.200''±0.004'') 5.08±0.1 (0.200''±0.004'') [©] 0.6±0.1 (0.024''±0.004'') AMPERE RATING Refer to fuse FGNO explanation table AMMO PACK (P/N : 0698QXXXX-02) QUANTITY & PACKAGING CODE 12.7±0.3 9.0+2 0698Q 01 = 4.3mm +/- 0.3mm lead length,1000 pcs / Box, Bulk 02 = 1000 pcs / Box, Ammo Pack 05 = 3.5mm +/- 0.3mm lead length,1000 pcs / Box, Bulk 01 101 101 0 6.35±1.3 Dimension in mm

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



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