

# Type 0698Q

## Quick Acting Radial Lead Micro Fuse Series

**HF** **Pb** 0698Q Series

RoHS 6 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
- RoHS compliant without exemption
- Halogen Free
- Leadfree

### Applications

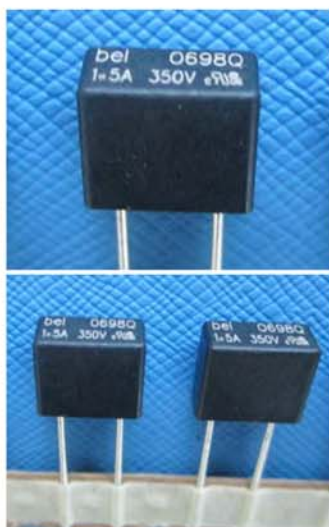
Provide individual protection for components or internal circuits.

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

LEAD FREE = **Pb**  
HALOGEN FREE = **HF**

### Physical Specifications

Materials	Base and Cover : Black thermoplastic, UL 94-V0
	Pins : Matte Tin Plated Copper
Marking	On Fuse :
	"bel", "0698Q", "Current Rating", "350V" & " <b>cRU</b> " <b>us</b> "
	On Label :
	"bel", "0698Q", "Current Rating", "Voltage Rating", " <b>cRU</b> " <b>us</b> ", " <b>CE</b> ", " <b>RoHS</b> ", " <b>✓</b> ", " <b>HF</b> ", " <b>Pb</b> ", and interrupting Rating.



### Electrical Characteristics(UL / CSA STANDARD 248-14)

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

### Safety Agency Approvals

SAFETY AGENCY	SAFETY AGENCY CERTIFICATE NUMBER	AMPERE RANGE / VOLT @ I.R. ABILITY
<b>cRU</b> <b>us</b>	E20624	1.5A-6.3A / 350V AC @ 100A
		1.5A-6.3A / 140V DC @ 150A

Specifications subject to change without notice



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### 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°C to +125°C

### Electrical Specifications

Part Number	Ampere Rating	Typical Cold Resistance (ohm)	Typical Volt-drop @100% In (Volt) max.	Max. Voltage Rating (V)	Interrupting Rating	Melting I <sup>2</sup> T <10 mSec (A <sup>2</sup> Sec)	Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec)	Maximum Power Dissipation (W)	Agency Approvals
									
0698Q1500-XX	1.5A	0.057	0.17	350	1.5A-6.3A / 350V AC @ 100A and 140V DC @ 150A	0.64	0.61	0.18	Y
0698Q2000-XX	2A	0.039	0.15	350		1.20	1.30	0.25	Y
0698Q2500-XX	2.5A	0.028	0.12	350		2.59	2.50	0.25	Y
0698Q3150-XX	3.15A	0.022	0.11	350		4.90	4.96	0.31	Y
0698Q4000-XX	4A	0.016	0.10	350		3.95	4.74	0.35	Y
0698Q5000-XX	5A	0.012	0.098	350		6.04	7.25	0.42	Y
0698Q6300-XX	6.3A	0.009	0.091	350		12.66	14.92	0.47	Y

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

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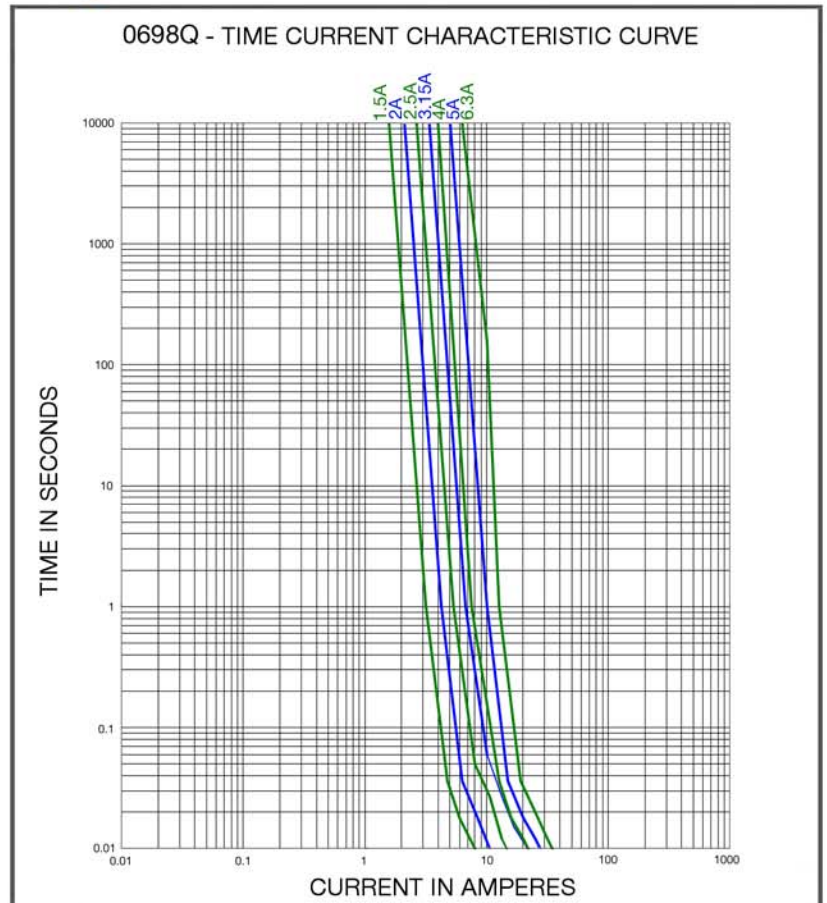
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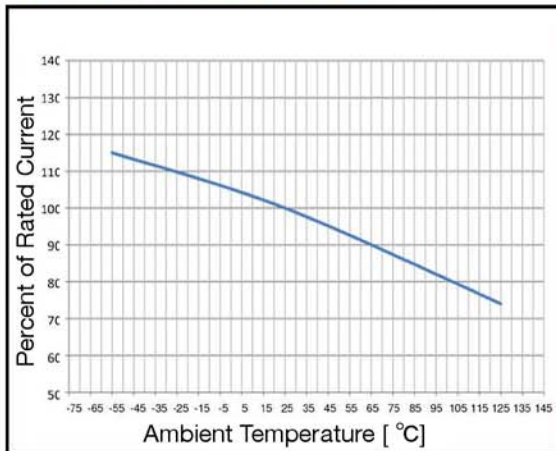
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### Average Time Current Curve

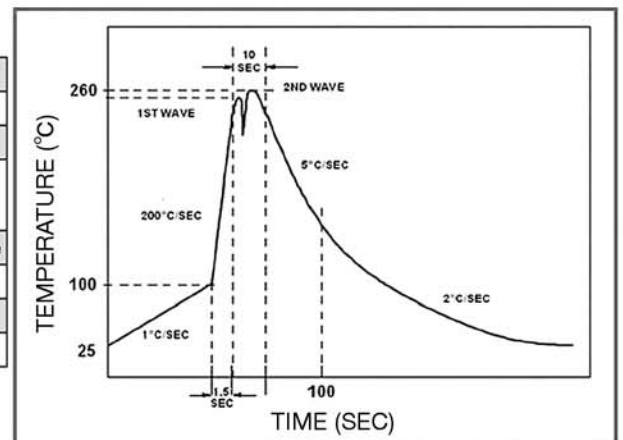


### Temperature Derating Curve



### Soldering Parameters

Lead-free Wave Soldering Profile	
Wave Solder 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 <sub>p</sub>	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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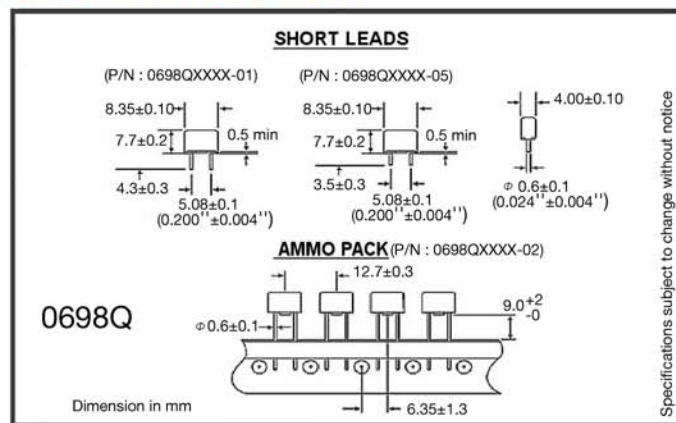
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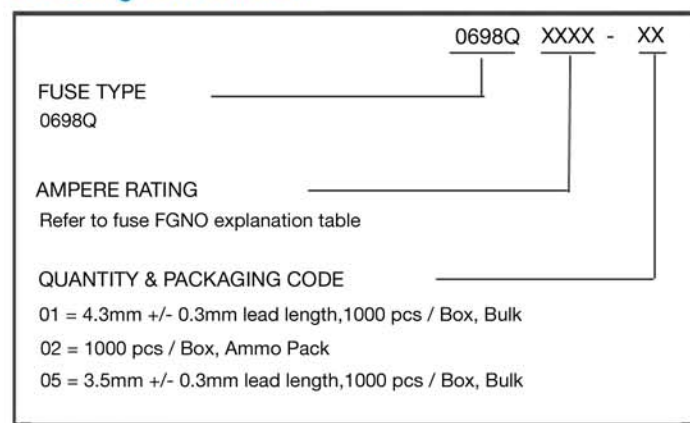
### Fuse FGNO Explanation 06XX X [XXXX] X XX, [XXXX]=Ampere Rating

Fraction	Decimal	Milliamps	Bel FGNO[XXXX]	Fraction	Decimal	Amps	Bel FGNO[XXXX]
1/32	0.032	32	0032	1.0	1	1000	
1/25	.040	40	0040	1-1/4	1.25	1.25	1250
1/20	.050	50	0050	1-1/2	1.50	1.5	1500
1/16	.063	63	0063		1.60	1.6	1600
8/100	.080	80	0080		2.0	2	2000
1/10	.100	100	0100	2-1/4	2.25	2.25	2250
1/8	.125	125	0125	2-1/2	2.5	2.5	2500
15/100	.150	150	0150		3.0	3	3000
	.160	160	0160		3.15	3.15	3150
2/10	.200	200	0200	3-1/2	3.5	3.5	3500
1/4	.250	250	0250		4.0	4	4000
3/10	.300	300	0300		5.0	5	5000
	.315	315	0315		6.0	6	6000
3/8	.375	375	0375		6.3	6.3	6300
4/10	.400	400	0400		7.0	7	7000
1/2	.500	500	0500	7-1/2	7.5	7.5	7500
6/10	.600	600	0600		8.0	8	8000
	.630	630	0630			10	9100
7/10	.700	700	0700			12	9120
3/4	.750	750	0750			15	9150
8/10	.800	800	0800			20	9200
						25	9250
						30	9300

### 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	EIA-468-C and IEC-286-2	1000	02

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