



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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# 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

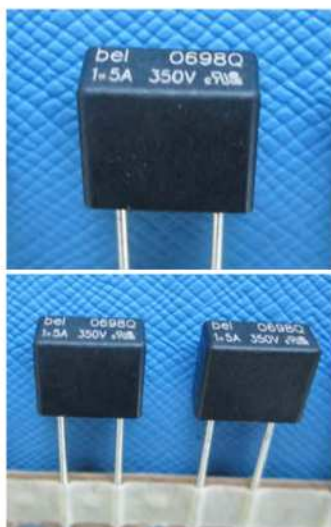
Provide individual protection for components or internal circuits.

- 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" & "UL"                                                                |
|           | On Label :                                                                                                     |
|           | "bel", "0698Q", "Current Rating", "Voltage Rating", "UL", "CE", "E", "✓", "HF", "Pb", 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 | VOLTAGE RATING (V)             | AMPERE RANGE / VOLT @ I.R. ABILITY*          |
|---------------|----------------------------------|--------------------------------|----------------------------------------------|
| UL            | E20624                           | 1.5A-6.3A / 350V AC<br>140V DC | 1.5A-6.3A / 350V AC @ 100A<br>140V DC @ 150A |

\* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

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. | Voltage and Interrupting Ratings                                                        | 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                                   | See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings | 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                                   |                                                                                         | 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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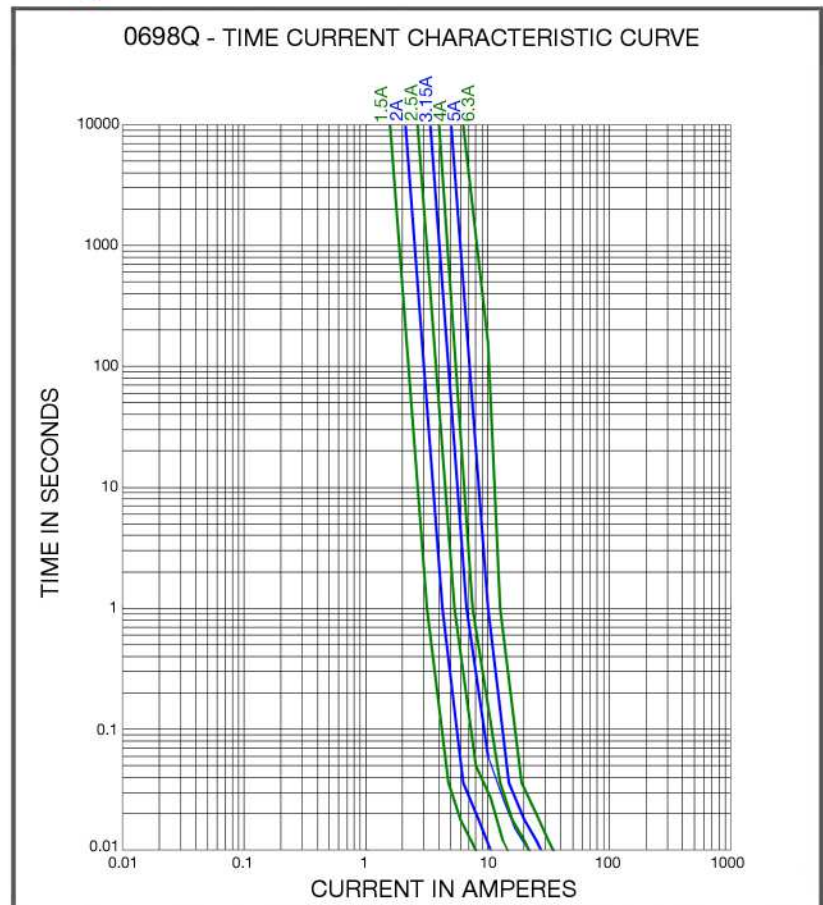
# Type 0698Q

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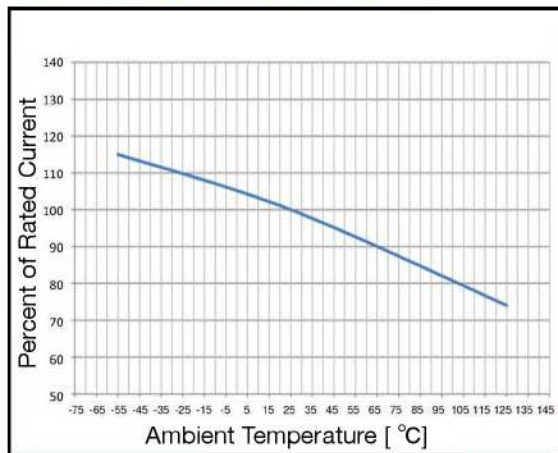
HF  0698Q Series

RoHS 6 Compliant

### Average Time Current Curve

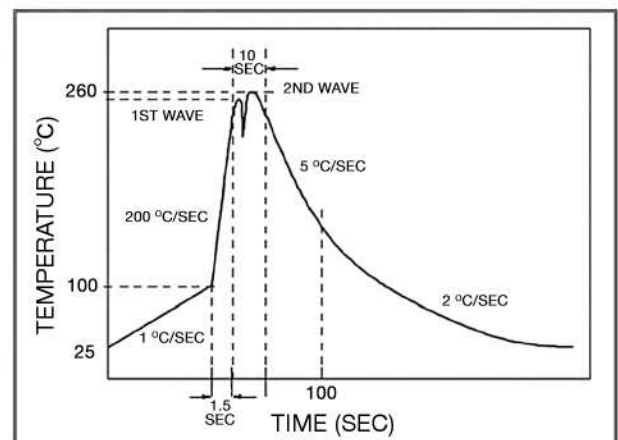


### Temperature Derating Curve



### 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<br>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.                             |



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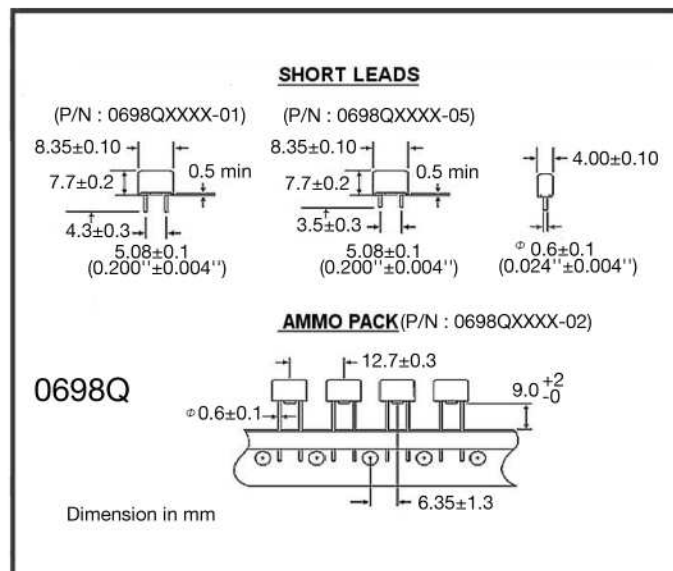
### Fuse FGNO Explanation

0698 Q [XXXX] - XX

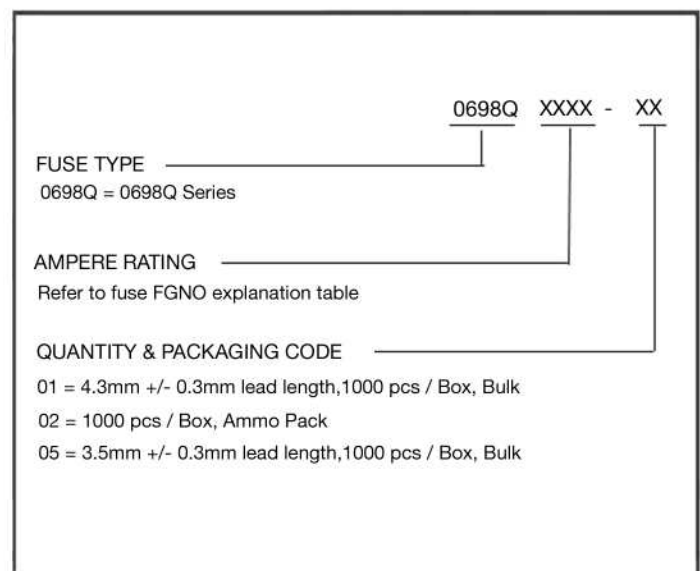
0698Q=0698Q; [XXXX]=Ampere Rating; XX=See Ordering Information as below

| 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           |

### 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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