

C2QDNOV2010



## Type C2Q

### Surface Mount Very Fast-Acting Chip Fuse

0603 size  
RoHS 6 Compliant



Catalog Number	Ampere Rating	Typical Cold Resistance (ohm)	Volt-drop @100% In (Volt) max.	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)
C2Q 250	250mA	0.70	0.277	0.002	0.0001	0.08
C2Q 300	300mA	0.52	0.259	0.003	0.0001	0.10
C2Q 375	375mA	0.41	0.245	0.005	0.0002	0.11
C2Q 500	500mA	0.29	0.227	0.009	0.0004	0.13
C2Q 750	750mA	0.17	0.203	0.020	0.0011	0.18
C2Q 1	1A	0.120	0.189	0.036	0.002	0.23
C2Q 1.25	1.25A	0.090	0.180	0.058	0.004	0.27
C2Q 1.5	1.5A	0.073	0.174	0.084	0.006	0.31
C2Q 2	2A	0.053	0.166	0.15	0.011	0.40
C2Q 2.5	2.5A	0.041	0.162	0.24	0.019	0.49
C2Q 3	3A	0.034	0.160	0.36	0.030	0.58
C2Q 3.5	3.5A	0.028	0.160	0.50	0.044	0.68
C2Q 4	4A	0.025	0.160	0.63	0.059	0.76
C2Q 5	5A	0.021	0.164	1.05	0.103	0.98

### Electrical Characteristics (UL STD. 248-14)

Testing current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	5 sec
300%	N/A	0.2 sec

### Approvals



Safety Agency Approvals	Amp range / Volt @ I.R. ability
Recognized File No. E20624	250mA - 4A / 32V AC @ 35A and 63V DC @ 50A
	5A / 32V AC & DC @ 50A

### RoHS 6 Compliant Product

RoHS Reflow Reference : JEDEC J-STD-020C (260°C,40 sec max)  
RoHSWave Soldering Compatible : (260°C, 10 sec max)

### Environmental Specification

#### Shock Resistance

MIL-STD-202G, Method 213B, Test Condition I  
(100 G's peak for 6 milliseconds; Sawtooth Waveform)

#### Vibration Resistance

MIL-STD-202G, Method 201A (10-55 Hz, 0.06 inch, total excursion)

#### Salt Spray Resistance

MIL-STD-202G, Method 101E, Test condition B (48 hrs)

#### Insulation Resistance

MIL-STD-202G, Method 302, Test Condition A  
(After Opening) 10,000 ohms minimum

#### Solderability

MIL-STD-202G, Method 208H

#### Soldering Heat Resistance

MIL-STD-202G Method 210F, Test Condition C. Top Side  
(260°C, 20 sec)

MIL-STD-202G Method 210F, Test Condition D. Bottom Side  
(260°C, 10sec)

#### Thermal Shock Resistance

MIL-STD-202G, Method 107G, Test Condition B  
(-65°C to +125°C)

#### Operating Temperature

-55°C to +125°C

Consult manufacturer for other ratings

HALOGEN FREE=   
LEAD FREE =

### Physical Specification

#### Materials

Ceramic Substrate / Printed Element

#### Marking

On fuse:

None

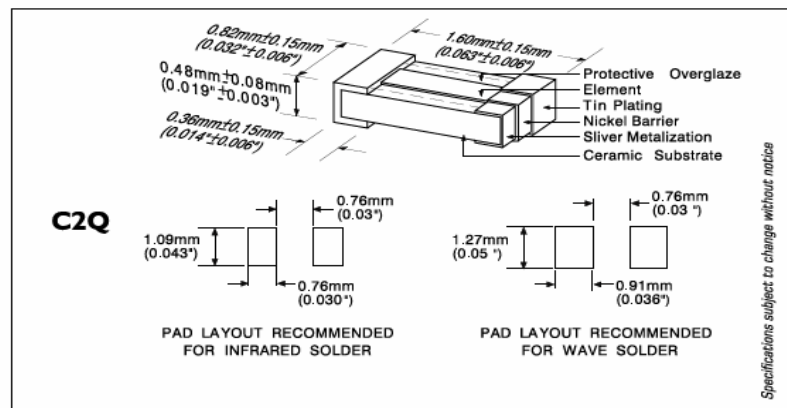
Label on reel :

"bel", "C2Q", "Current Rating", "Voltage Rating", "Interrupting Rating",  
"Appropriate Safety Logos" and , (China RoHS compliant)

#### Packaging

5,000 fuses in 7 inches dia. Reel, 8 mm wide tape, 4mm pitch, per EIA Standard 481-C  
(equivalent IEC-286 part 3)

### Mechanical Dimensions



Specifications subject to change without notice

ORDERING INFORMATION SEE LAST 2 PAGES

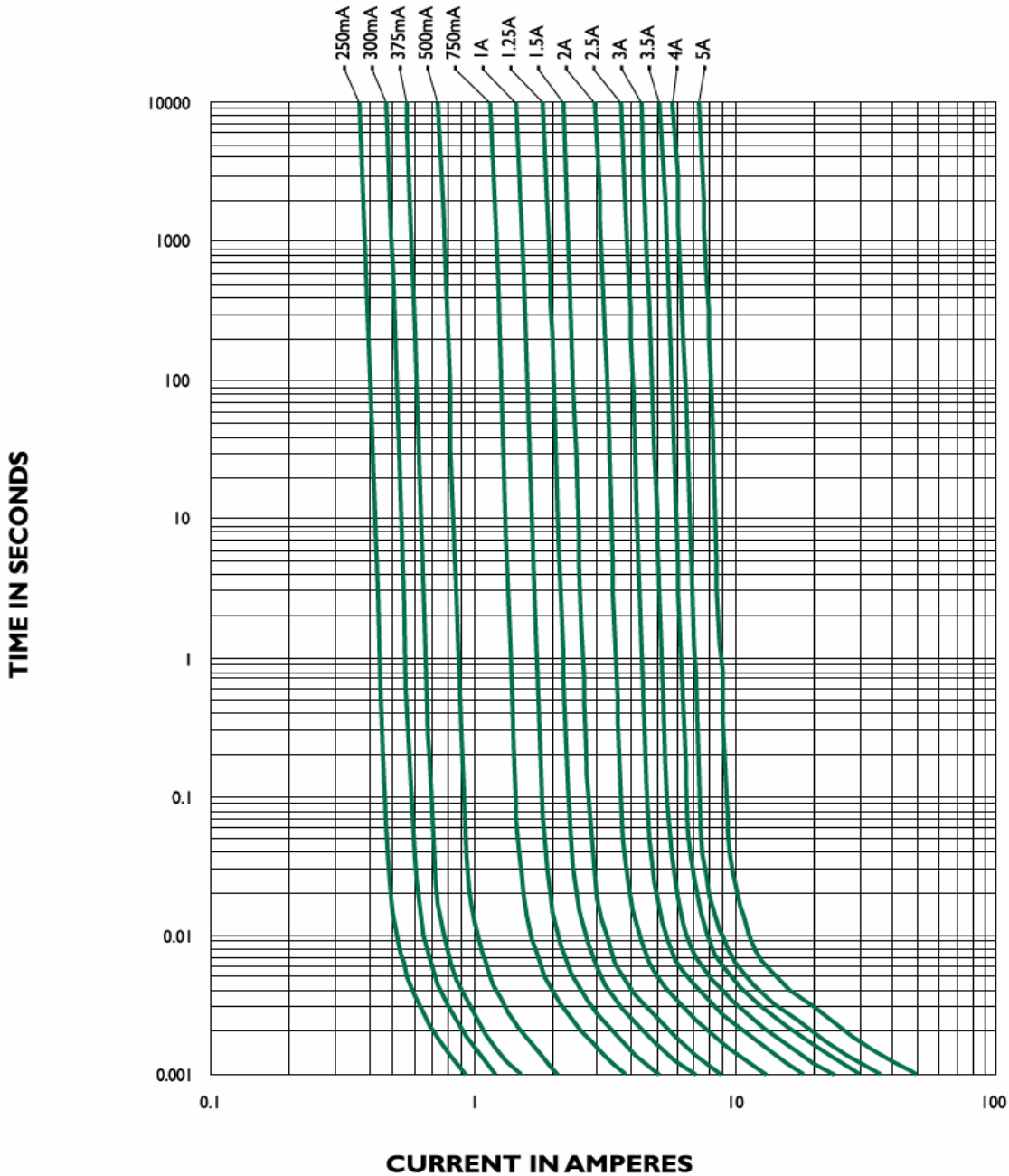
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**Surface Mount Very Fast-Acting Chip Fuse**

0603 size  
 RoHS 6 Compliant



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**C2Q - TIME CURRENT CHARACTERISTIC CURVE**



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NOTE - see important information under "User Guide" on P.08

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