

Type C2Q

Surface Mount Very Fast-Acting Chip Fuse

0603 size

C2QD0801



Electrical Characteristics (ULICSA 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 |

Environmental Specification

Soldering Techniques & Compatibility

Reflow: Industrial standard, 260°C peak
Wave Solder: 260°C, 10 sec max. (MIL-STD-202, Method 210)

Shock

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

Vibration

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

Salt Spray

MIL-STD-202, Method 101, Test Condition B (48 hrs)

Insulation Resistance

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

Solderability

MIL-STD-202, Method 208

Resistance to Solder Heat

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

Thermal Shock

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

Operating Temperature

-55°C to +125°C

| Catalog Number | Ampere Rating | Typical Cold Resistance (ohm) | Volt-drop @100% I_n (Volt) max. | Melting $I^2T < 10$ mSec (A ² Sec) | Melting $I^2T @10$ In (A ² Sec) | Maximum Power Dissipation (W) |
|----------------|---------------|-------------------------------|-----------------------------------|---|--|-------------------------------|
| C2Q 250 | 250mA | 0.70 | 0.277 | 0.002 | 0.0002 | 0.08 |
| C2Q 300 | 300mA | 0.52 | 0.259 | 0.003 | 0.0003 | 0.10 |
| C2Q 375 | 375mA | 0.41 | 0.246 | 0.005 | 0.0004 | 0.11 |
| C2Q 500 | 500mA | 0.29 | 0.227 | 0.009 | 0.0007 | 0.13 |
| C2Q 750 | 750mA | 0.17 | 0.203 | 0.020 | 0.0018 | 0.18 |
| C2Q 1 | 1A | 0.120 | 0.189 | 0.036 | 0.003 | 0.22 |
| C2Q 1.25 | 1.25A | 0.090 | 0.180 | 0.058 | 0.005 | 0.27 |
| C2Q 1.5 | 1.5A | 0.073 | 0.175 | 0.084 | 0.008 | 0.31 |
| C2Q 2 | 2A | 0.053 | 0.166 | 0.15 | 0.014 | 0.39 |
| C2Q 2.5 | 2.5A | 0.041 | 0.162 | 0.24 | 0.024 | 0.48 |
| C2Q 3 | 3A | 0.034 | 0.161 | 0.36 | 0.036 | 0.58 |
| C2Q 3.5 | 3.5A | 0.028 | 0.160 | 0.50 | 0.050 | 0.67 |
| C2Q 4 | 4A | 0.025 | 0.160 | 0.63 | 0.065 | 0.76 |

Consult manufacturer for other ratings

Physical Specification

Materials

Ceramic Substrate / Printed Element

Marking

On fuse:

None

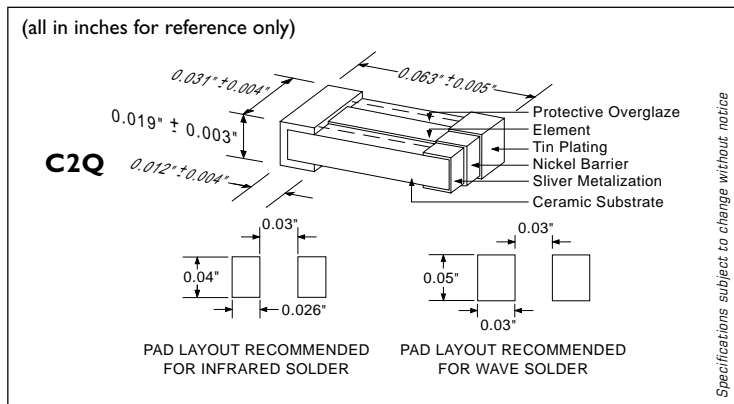
Label on reel:

“bel”, “C2Q”, “Current Rating”, “32V; Interrupting Ratings” & “ ”

Packaging

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

Mechanical Dimensions



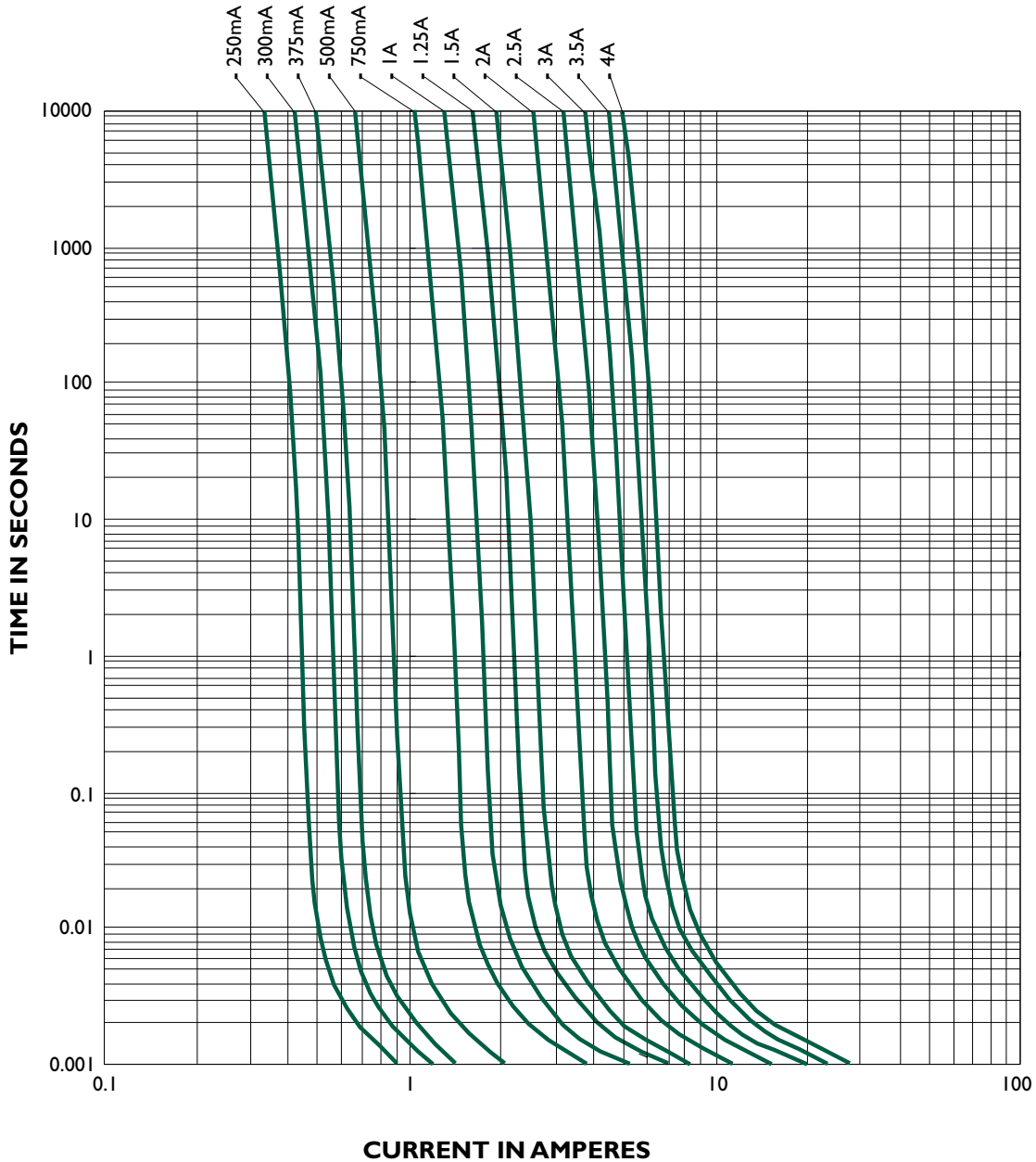
ORDERING INFORMATION SEE PAGES 67 & 68

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C2Q - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

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

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