

Type C2Q

Surface Mount Very Fast-Acting Chip Fuse

0603 size
RoHS Compliant

C2QD1005



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
UL Recognized File No. E20624	250mA - 4A / 32V AC @ 35A and 63V DC @ 50A
	5A / 32V AC & DC @ 50A

RoHS Compliant Product

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

Thermal Shock Resistance

MIL-STD-202G, Method 107G, 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 I_n (A ² 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

Consult manufacturer for other ratings

Physical Specification

Materials

Ceramic Substrate / Printed Element

Marking

On fuse:

None

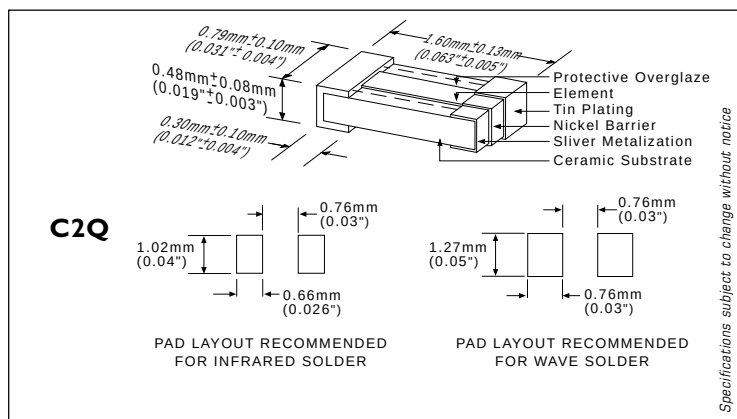
Label on reel :

"bel", "C2Q", "Current Rating", "Voltage Rating", "Interrupting Rating",
"Appropriate Safety Logos" and "RoHS" for RoHS Version

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



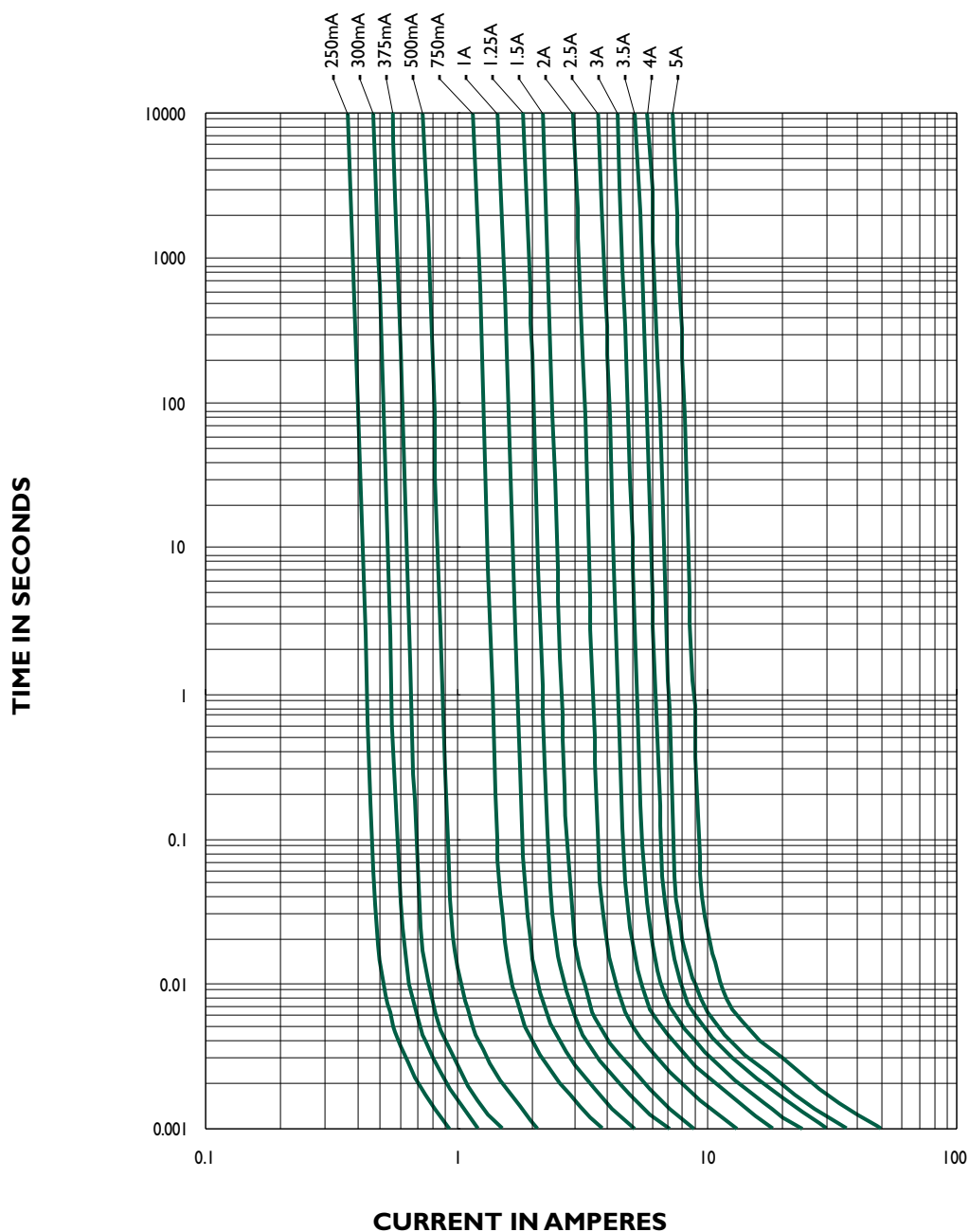
ORDERING INFORMATION SEE LAST 2 PAGES

Type C2Q

Surface Mount Very Fast-Acting Chip Fuse

0603 size
RoHS Compliant

C2Q - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

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

Corporate Office Bel Fuse Inc.

206 Van Vorst Street, Jersey City, NJ 07302
Tel: 201-432-0463
Fax: 201-432-9542
E-Mail: belfuse@belfuse.com
Website: www.belfuse.com

Far East Office Bel Fuse Ltd.

8F/8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel: 852-2328-5515
Fax: 852-2352-3706

European Office

Bel Fuse Europe Ltd.

Preston Technology Management Centre
Marsh Lane, Preston PR1 8UD
Lancashire, U.K
Tel: 44-1772-556601
Fax: 44-1772-888366