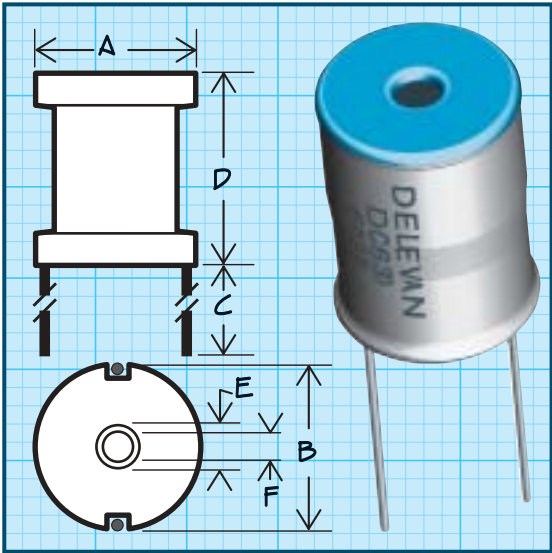


# Series DC630

## High Current Power Line Chokes



### Physical Parameters

|                | Inches                        | Millimeters   |
|----------------|-------------------------------|---------------|
| A              | 0.630 ± 0.030                 | 16.0 ± 0.762  |
| B (C/L to C/L) | See Characteristics table     |               |
| C              | 0.750 Min.                    | 19.05 Min.    |
| D              | 0.810 ± 0.020                 | 20.57 ± 0.508 |
| E (Ref. only)  | 0.195 Max.                    | 4.95 Max.     |
| F              | Clearance Hole for 4/40 Screw |               |

**Leads** Tinned to within 1/16" of Body

### Inductance

Measured @ 10 KHz, 25mA<sub>dc</sub> and 0 Adc @ 25°C

**Mechanical Configuration** Insulated Ferrite Bobbin protected with a flame retardant polyolefin sleeve; Center hole allows for mechanical mounting

### Operating Temperature

-55°C to +125°C;

-55°C to +80°C @ full rated current

**Current Rating at 80°C Ambient** 45°C Rise

**Incremental Current** Minimum current which causes a 5% max. change in Inductance

**Power Dissipation at 80°C** 1.00 Watts Max.

**Dielectric Withstanding Voltage** 1000 V RMS Min.

**Marking** Parts printed with DELEVAN and API Part Number

**Packaging** Bulk only

| PART NUMBER  | NOMINAL INDUCTANCE (µH) | TOLERANCE | DC RESISTANCE MAX. (OHMS) @ 25°C | CURRENT RATING MAXIMUM (A DC) | INCREMENTAL CURRENT (A DC) | DIMENSION B (Approx. Inches) | LEAD DIAMETER (Inches) |
|--------------|-------------------------|-----------|----------------------------------|-------------------------------|----------------------------|------------------------------|------------------------|
| SERIES DC630 |                         |           |                                  |                               |                            |                              |                        |
| DC630-102M   | 1.0                     | ± 20%     | 0.003                            | 14.00                         | 68.0                       | 0.490                        | 0.051                  |
| DC630-152M   | 1.5                     | ± 20%     | 0.004                            | 13.50                         | 55.5                       | 0.490                        | 0.051                  |
| DC630-222M   | 2.2                     | ± 20%     | 0.005                            | 12.80                         | 46.0                       | 0.490                        | 0.051                  |
| DC630-272M   | 2.7                     | ± 20%     | 0.005                            | 12.80                         | 42.0                       | 0.490                        | 0.051                  |
| DC630-332M   | 3.3                     | ± 20%     | 0.005                            | 12.80                         | 38.0                       | 0.490                        | 0.051                  |
| DC630-392M   | 3.9                     | ± 20%     | 0.006                            | 12.30                         | 34.5                       | 0.490                        | 0.051                  |
| DC630-472M   | 4.7                     | ± 20%     | 0.007                            | 11.70                         | 31.5                       | 0.490                        | 0.051                  |
| DC630-562M   | 5.6                     | ± 20%     | 0.007                            | 11.70                         | 29.0                       | 0.490                        | 0.051                  |
| DC630-682M   | 6.8                     | ± 20%     | 0.008                            | 10.50                         | 26.0                       | 0.490                        | 0.051                  |
| DC630-822M   | 8.2                     | ± 20%     | 0.009                            | 10.00                         | 24.0                       | 0.490                        | 0.051                  |
| DC630-103K   | 10.0                    | ± 10%     | 0.010                            | 9.50                          | 21.5                       | 0.490                        | 0.051                  |
| DC630-123K   | 12.0                    | ± 10%     | 0.011                            | 9.10                          | 19.5                       | 0.490                        | 0.051                  |
| DC630-153K   | 15.0                    | ± 10%     | 0.015                            | 8.09                          | 17.5                       | 0.470                        | 0.045                  |
| DC630-183K   | 18.0                    | ± 10%     | 0.020                            | 7.00                          | 16.0                       | 0.460                        | 0.040                  |
| DC630-223K   | 22.0                    | ± 10%     | 0.025                            | 6.26                          | 14.5                       | 0.460                        | 0.040                  |
| DC630-273K   | 27.0                    | ± 10%     | 0.030                            | 5.72                          | 13.2                       | 0.440                        | 0.036                  |
| DC630-333K   | 33.0                    | ± 10%     | 0.040                            | 4.95                          | 11.9                       | 0.430                        | 0.032                  |
| DC630-393K   | 39.0                    | ± 10%     | 0.050                            | 4.43                          | 10.9                       | 0.420                        | 0.029                  |
| DC630-473K   | 47.0                    | ± 10%     | 0.062                            | 3.98                          | 10.0                       | 0.480                        | 0.029                  |
| DC630-563K   | 56.0                    | ± 10%     | 0.069                            | 3.77                          | 9.20                       | 0.480                        | 0.029                  |
| DC630-683K   | 68.0                    | ± 10%     | 0.077                            | 3.57                          | 8.30                       | 0.480                        | 0.029                  |
| DC630-823K   | 82.0                    | ± 10%     | 0.083                            | 3.44                          | 7.60                       | 0.480                        | 0.029                  |
| DC630-104K   | 100                     | ± 10%     | 0.095                            | 3.21                          | 6.80                       | 0.480                        | 0.029                  |
| DC630-124K   | 120                     | ± 10%     | 0.100                            | 3.12                          | 6.20                       | 0.480                        | 0.029                  |
| DC630-154K   | 150                     | ± 10%     | 0.111                            | 2.97                          | 5.60                       | 0.480                        | 0.029                  |
| DC630-184K   | 180                     | ± 10%     | 0.125                            | 2.80                          | 5.10                       | 0.480                        | 0.029                  |
| DC630-224K   | 220                     | ± 10%     | 0.168                            | 2.42                          | 4.60                       | 0.470                        | 0.025                  |
| DC630-274K   | 270                     | ± 10%     | 0.225                            | 2.09                          | 4.20                       | 0.450                        | 0.023                  |
| DC630-334K   | 330                     | ± 10%     | 0.315                            | 1.72                          | 3.80                       | 0.450                        | 0.020                  |
| DC630-394K   | 390                     | ± 10%     | 0.342                            | 1.66                          | 3.40                       | 0.480                        | 0.020                  |
| DC630-474K   | 470                     | ± 10%     | 0.377                            | 1.58                          | 3.10                       | 0.480                        | 0.020                  |
| DC630-564K   | 560                     | ± 10%     | 0.408                            | 1.52                          | 2.90                       | 0.480                        | 0.020                  |
| DC630-684K   | 680                     | ± 10%     | 0.468                            | 1.42                          | 2.60                       | 0.480                        | 0.020                  |

POWER INDUCTORS