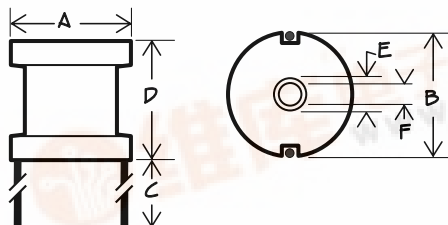


# Series DC1050R DC1050

High Current Power Line Chokes



## Physical Parameters

|               | Inches                        | Millimeters    |
|---------------|-------------------------------|----------------|
| A             | 1.050 ± 0.050                 | 26.670 ± 1.270 |
| B             | See Characteristics Table     |                |
| C             | 0.750 Min.                    | 19.050 Min.    |
| D             | 0.840 Max.                    | 21.336 Max.    |
| E (Ref. only) | 0.240 Max.                    | 6.096 Max.     |
| F             | Clearance Hole for 4/40 Screw |                |
| G             | See Characteristics Table     |                |

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

**Inductance** Measured @ 1 kHz within 0 A DC on a GenRad 1658A Digibridge, or equivalent

**Mechanical Configuration** Center hole allows for mechanical mounting; insulated bobbins

## 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% maximum decrease in Inductance

**Power Dissipation at 80°C 2.20 Watts Max.**

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

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

**Packaging** Bulk only

**Made in the U.S.A.**

| DASH NUMBER*                                                                        | NOMINAL INDUCTANCE (μH) | TOLERANCE | DC RESISTANCE MAX. (OHMS) @ 25°C | CURRENT RATING MAXIMUM (A DC) | INCREMENTAL CURRENT (A DC) | DIMENSION B (Inches, Reference) | LEAD DIAMETER (Inches, Reference) |
|-------------------------------------------------------------------------------------|-------------------------|-----------|----------------------------------|-------------------------------|----------------------------|---------------------------------|-----------------------------------|
| SERIES DC1050 FERRITE CORE                                                          |                         |           |                                  |                               |                            |                                 |                                   |
| -104K                                                                               | 100                     | ±10%      | 0.034                            | 7.5                           | 9.0                        | 0.81                            | 0.046                             |
| -124K                                                                               | 120                     | ±10%      | 0.046                            | 6.5                           | 8.0                        | 0.77                            | 0.040                             |
| -154K                                                                               | 150                     | ±10%      | 0.064                            | 5.5                           | 7.0                        | 0.77                            | 0.040                             |
| -184K                                                                               | 180                     | ±10%      | 0.072                            | 5.1                           | 6.5                        | 0.77                            | 0.040                             |
| -224K                                                                               | 220                     | ±10%      | 0.080                            | 4.8                           | 6.0                        | 0.77                            | 0.040                             |
| -274K                                                                               | 270                     | ±10%      | 0.110                            | 4.2                           | 5.0                        | 0.77                            | 0.036                             |
| -334K                                                                               | 330                     | ±10%      | 0.122                            | 4.0                           | 4.5                        | 0.77                            | 0.036                             |
| -394K                                                                               | 390                     | ±10%      | 0.169                            | 3.4                           | 4.0                        | 0.77                            | 0.032                             |
| -474K                                                                               | 470                     | ±10%      | 0.187                            | 3.2                           | 3.8                        | 0.77                            | 0.032                             |
| -564K                                                                               | 560                     | ±10%      | 0.205                            | 3.0                           | 3.5                        | 0.77                            | 0.032                             |
| -684K                                                                               | 680                     | ±10%      | 0.256                            | 2.7                           | 3.0                        | 0.77                            | 0.029                             |
| -824K                                                                               | 820                     | ±10%      | 0.288                            | 2.5                           | 2.8                        | 0.77                            | 0.029                             |
| -105K                                                                               | 1000                    | ±10%      | 0.426                            | 2.1                           | 2.5                        | 0.77                            | 0.029                             |
| -125K                                                                               | 1200                    | ±10%      | 0.462                            | 2.0                           | 2.2                        | 0.77                            | 0.026                             |
| -155K                                                                               | 1500                    | ±10%      | 0.518                            | 1.9                           | 2.0                        | 0.77                            | 0.026                             |
| -185K                                                                               | 1800                    | ±10%      | 0.705                            | 1.6                           | 1.8                        | 0.77                            | 0.026                             |
| -225K                                                                               | 2200                    | ±10%      | 1.020                            | 1.4                           | 1.5                        | 0.77                            | 0.023                             |
| -275K                                                                               | 2700                    | ±10%      | 1.140                            | 1.3                           | 1.4                        | 0.77                            | 0.023                             |
| -335K                                                                               | 3300                    | ±10%      | 1.270                            | 1.2                           | 1.3                        | 0.77                            | 0.023                             |
| -395K                                                                               | 3900                    | ±10%      | 1.670                            | 1.1                           | 1.2                        | 0.77                            | 0.020                             |
| -475K                                                                               | 4700                    | ±10%      | 1.860                            | 1.0                           | 1.0                        | 0.77                            | 0.020                             |
| *Complete part # must include series # PLUS the dash #                              |                         |           |                                  |                               |                            |                                 |                                   |
| For further surface finish information, refer to TECHNICAL section of this catalog. |                         |           |                                  |                               |                            |                                 |                                   |



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