

**MINIATURE
CONFORMAL COATED
POWER INDUCTOR
SERIES DD**

FEATURES

- Highest current capacity per volume
- Low price
- Compact size
- Good for auto insertion
- Available with cut & formed leads
- Available on Tape & Reel

ELECTRICAL CHARACTERISTICS

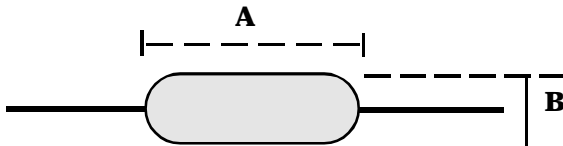
- Inductance range 1.0 μ H to 1000 μ H
- Tolerance \pm 10% over entire range
- Rated current Based on value obtained when initial value changes within plus or minus 10%
- Testing procedures L & DCR are measured with Wayne Kerr Precision Components Analyzer at 1 KHz and with 100 mVAC

PHYSICAL CHARACTERISTICS

- Dielectric strength 500 volts RMS
- Operating temperature -55°C to +105°C
- Terminal strength 5 lbs pull test per MIL-STD-202E
- Resistance to solvents Conforms to MIL-STD-202
- Construction Epoxy coated
- Marking 4 Band EIA color code
- Packaging Bulk: 1000 pieces per bag
Reel: 2500 pieces per reel

DIMENSIONS IN INCHES

- Body length A 0.40" \pm 0.03**
- Body diameter B 0.16" \pm 0.03***
- Lead wire 22 AWG / TCW
- Lead length 1.05" minimum

**SPECIFICATIONS**

| PART NUMBER | L (μ H) | DCR Max (Ω) | RATED CURRENT (Amp) | SATURATION CURRENT (Amp) |
|-------------|-----------------|----------------------------|---------------------------|--------------------------------|
| DD-1R0K | 1.0 | 0.025 | 4.0 | 7.5 |
| DD-1R2K | 1.2 | 0.025 | 4.0 | 7.5 |
| DD-1R5K | 1.5 | 0.028 | 4.0 | 7.5 |
| DD-1R8K | 1.8 | 0.030 | 4.0 | 7.5 |
| DD-2R2K | 2.2 | 0.033 | 4.0 | 6.1 |
| DD-2R7K | 2.7 | 0.035 | 4.0 | 5.0 |
| DD-3R3K | 3.3 | 0.040 | 3.0 | 4.7 |
| DD-3R9K | 3.9 | 0.045 | 3.0 | 4.5 |
| DD-4R7K | 4.7 | 0.050 | 3.0 | 4.5 |
| DD-5R6K | 5.6 | 0.058 | 3.0 | 4.5 |
| DD-6R8K | 6.8 | 0.060 | 3.0 | 3.5 |
| DD-8R2K | 8.2 | 0.065 | 2.0 | 3.0 |
| DD-100K | 10.0 | 0.085 | 2.0 | 3.0 |
| DD-120K | 12 | 0.09 | 1.0 | 2.5 |
| DD-150K | 15 | 0.10 | 1.0 | 2.5 |
| DD-180K | 18 | 0.12 | 1.0 | 2.0 |
| DD-220K | 22 | 0.15 | 1.0 | 2.0 |
| DD-250K | 25 | 0.15 | 1.0 | 2.0 |
| DD-270K | 27 | 0.17 | 1.0 | 1.7 |
| DD-330K | 33 | 0.19 | 1.0 | 1.5 |
| DD-390K | 39 | 0.21 | 1.0 | 1.5 |
| DD-470K | 47 | 0.23 | 1.0 | 1.3 |
| DD-560K | 56 | 0.38 | 0.6 | 1.2 |
| DD-680K | 68 | 0.42 | 0.6 | 1.2 |
| DD-820K | 82 | 0.45 | 0.6 | 0.85 |
| DD-101K | 100 | 0.80 | 0.6 | 0.80 |
| DD-121K | 120 | 1.10 | 0.50 | 0.70 |
| DD-151K | 150 | 1.10 | 0.50 | 0.70 |
| DD-181K | 180 | 1.25 | 0.40 | 0.65 |
| DD-221K | 220 | 1.30 | 0.40 | 0.60 |
| DD-251K | 250 | 1.45 | 0.40 | 0.56 |
| DD-271K | 270 | 1.95 | 0.30 | 0.50 |
| DD-331K | 330 | 2.10 | 0.30 | 0.50 |
| DD-391K | 390 | 2.25 | 0.30 | 0.42 |
| DD-471K | 470 | 2.50 | 0.20 | 0.36 |
| DD-561K | 560 | 3.10 | 0.20 | 0.35 |
| DD-681K | 680 | 4.60 | 0.20 | 0.31 |
| DD-821K | 820 | 5.25 | 0.15 | 0.30 |
| DD-102K | 1000 | 6.00 | 0.15 | 0.25 |

NOTE *Actual body length is shorter. However, due to epoxy coating, sometimes we do have a very thin layer extended on leads, we have to use .03" tolerance to cover this area.

**We can also provide smaller part with OD 0.147" +/- 0.02 with same electrical characteristics as our standard parts. Please consult factory for this item.