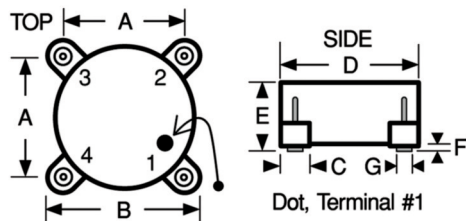


**SERIES**

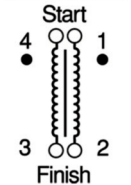
**4448R  
4448**



## Surface Mount High Current Power Toroids



### SCHEMATIC



Actual Size



**Test Methods** Solderability per MIL-STD-202, Method 208. Inductance tested at 10 kHz and zero Amp DC. Tested at 25°C

**Mechanical Configuration** A flat top surface mount case with excellent coplanarity of terminals.

### Physical Parameters

|   | Inches            | Millimeters      |
|---|-------------------|------------------|
| A | 0.390 to 0.410    | 9.91 to 10.41    |
| B | 0.520 to 0.540    | 13.21 to 13.71   |
| C | 0.115 to 0.135    | 2.92 to 3.43     |
| D | 0.480 to 0.500    | 12.19 to 12.70   |
| E | 0.310 Max.        | 7.87 Max.        |
| F | 0.020 to 0.040    | 0.51 to 1.02     |
| G | 0.060 (Ref. only) | 1.52 (Ref. only) |

**Electrical Configuration** Two inductors per unit; internal terminals: #1(start) – #2(finish) & #4(start) – #3(finish).

**Series** Externally connect #2 to #4.

**Parallel** Externally connect #1 to #4 and #2 to #3.

**Operating Temperature Range** –55°C to +125°C

**Rated DC Current** Based upon 20°C temperature rise from 25°C ambient.

**Maximum Power Dissipation at 25°C** 0.313 Watts

**Inductance Tolerance** Tolerance is specified by suffixing an alpha character to the part number as follows: K = 10%, L = 15%. M = 20%. Units are normally supplied to the tolerance indicated in the tables.

**Marking** Delevan; inductance and tolerance. A white dot indicates the location of pin 1.

Example: 4448-102M  
DELEVAN  
.47uH±20%

Weight (Grams) 2.5 (Ref.)

**Inductance at Rated DC Current** Minimum percent of measured zero Amp DC Inductance.  
-02M to -34L = 60%; -102M to 134L = 50%

**Packaging** Tape & reel (24mm):

13" reel, 350 pieces max.; 7" reel not available

| 0 AMPS DC PARALLEL<br>INDUCTANCE (μH) | RATED PARALLEL<br>CURRENT MAXIMUM | PARALLEL DC<br>MAXIMUM (OHMS) | 0 AMPS DC RESIST.<br>INDUCTANCE (μH) | CURRENT RATED SERIES<br>TOLERANCE | RATED MAXIMUM (AMPS) | SERIES DC RESISTANCE<br>MAXIMUM (OHMS) |
|---------------------------------------|-----------------------------------|-------------------------------|--------------------------------------|-----------------------------------|----------------------|----------------------------------------|
|---------------------------------------|-----------------------------------|-------------------------------|--------------------------------------|-----------------------------------|----------------------|----------------------------------------|

| SERIES 4448 POWDERED IRON CORE |            |      |       |            |      |       |  |
|--------------------------------|------------|------|-------|------------|------|-------|--|
| -02M                           | 0.47 ± 20% | 7.90 | 0.005 | 2.00 ± 20% | 3.95 | 0.020 |  |
| -04M                           | 0.68 ± 20% | 7.20 | 0.006 | 3.00 ± 20% | 3.60 | 0.024 |  |
| -06M                           | 1.00 ± 20% | 5.90 | 0.009 | 4.00 ± 20% | 2.95 | 0.036 |  |
| -08M                           | 2.00 ± 20% | 4.60 | 0.014 | 8.00 ± 20% | 2.30 | 0.056 |  |
| -10M                           | 5.00 ± 20% | 3.30 | 0.027 | 20.0 ± 20% | 1.65 | 0.108 |  |
| -12M                           | 8.00 ± 20% | 3.00 | 0.033 | 32.0 ± 20% | 1.50 | 0.132 |  |
| -14L                           | 10.0 ± 15% | 2.50 | 0.047 | 40.0 ± 15% | 1.25 | 0.188 |  |
| -16L                           | 15.0 ± 15% | 2.30 | 0.057 | 60.0 ± 15% | 1.15 | 0.228 |  |
| -18L                           | 20.0 ± 15% | 1.90 | 0.085 | 80.0 ± 15% | 0.95 | 0.340 |  |
| -20L                           | 25.0 ± 15% | 1.60 | 0.116 | 100 ± 15%  | 0.80 | 0.464 |  |
| -22L                           | 33.0 ± 15% | 1.30 | 0.166 | 132 ± 15%  | 0.65 | 0.664 |  |
| -24L                           | 50.0 ± 15% | 1.20 | 0.202 | 200 ± 15%  | 0.60 | 0.808 |  |
| -26L                           | 68.0 ± 15% | 1.10 | 0.238 | 272 ± 15%  | 0.55 | 0.952 |  |
| -28L                           | 100 ± 15%  | 0.72 | 0.565 | 400 ± 15%  | 0.36 | 2.260 |  |
| -30L                           | 150 ± 15%  | 0.64 | 0.696 | 600 ± 15%  | 0.32 | 2.784 |  |
| -32L                           | 200 ± 15%  | 0.60 | 0.810 | 800 ± 15%  | 0.30 | 3.240 |  |
| -34L                           | 300 ± 15%  | 0.54 | 1.003 | 1200 ± 15% | 0.27 | 4.012 |  |

| SERIES 4448 FERROUS ALLOY CORE |            |      |       |            |      |       |  |
|--------------------------------|------------|------|-------|------------|------|-------|--|
| -102M                          | 0.47 ± 20% | 7.90 | 0.004 | 2.00 ± 20% | 3.95 | 0.016 |  |
| -104M                          | 0.68 ± 20% | 7.00 | 0.005 | 3.00 ± 20% | 3.50 | 0.020 |  |
| -106M                          | 1.00 ± 20% | 6.50 | 0.006 | 4.00 ± 20% | 3.25 | 0.024 |  |
| -108M                          | 2.00 ± 20% | 5.90 | 0.007 | 8.00 ± 20% | 2.95 | 0.028 |  |
| -110M                          | 5.00 ± 20% | 4.40 | 0.014 | 20.0 ± 20% | 2.20 | 0.056 |  |
| -112M                          | 8.00 ± 20% | 3.50 | 0.019 | 32.0 ± 20% | 1.75 | 0.076 |  |
| -114L                          | 10.0 ± 15% | 3.40 | 0.020 | 40.0 ± 15% | 1.70 | 0.080 |  |
| -116L                          | 15.0 ± 15% | 3.00 | 0.024 | 60.0 ± 15% | 1.50 | 0.096 |  |
| -118L                          | 20.0 ± 15% | 2.10 | 0.055 | 80.0 ± 15% | 1.05 | 0.220 |  |
| -120L                          | 25.0 ± 15% | 2.00 | 0.064 | 100 ± 15%  | 1.00 | 0.254 |  |
| -122L                          | 33.0 ± 15% | 1.80 | 0.072 | 132 ± 15%  | 0.90 | 0.288 |  |
| -124L                          | 50.0 ± 15% | 1.50 | 0.111 | 200 ± 15%  | 0.75 | 0.444 |  |
| -126L                          | 68.0 ± 15% | 1.20 | 0.158 | 272 ± 15%  | 0.60 | 0.632 |  |
| -128L                          | 100 ± 15%  | 0.92 | 0.303 | 400 ± 15%  | 0.46 | 1.212 |  |
| -130L                          | 150 ± 15%  | 0.82 | 0.372 | 600 ± 15%  | 0.41 | 1.488 |  |
| -132L                          | 200 ± 15%  | 0.64 | 0.545 | 800 ± 15%  | 0.32 | 2.180 |  |
| -134L                          | 300 ± 15%  | 0.62 | 0.672 | 1200 ± 15% | 0.31 | 2.688 |  |

\*Complete part # must include series # PLUS the dash #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

