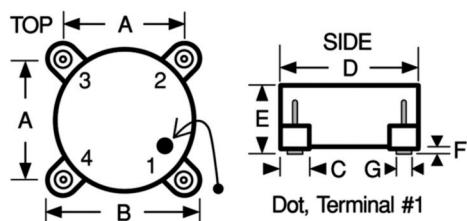


# SERIES

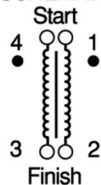
## 4501R 4501



### Surface Mount Low-Profile Power Toroids



#### SCHEMATIC



Actual Size



0 AMPS DC INDUCTANCE  
 $\pm 20\%$  ( $\mu\text{H}$  @ 10 kHz)  
DASH NUMBER\*  
DCR (OHMS) MAXIMUM  
RATED DC CURRENT  
(Amps) MAXIMUM  
INDUCTANCE ( $\mu\text{H}$ ) MINIMUM  
@ Rated DC Current

Power Inductors

#### SERIES 4501 FERROUS ALLOY CORE

##### Parallel Connected Specifications

|       |       |       |      |       |
|-------|-------|-------|------|-------|
| -102M | 0.47  | 0.005 | 6.50 | 0.30  |
| -104M | 0.68  | 0.006 | 5.50 | 0.40  |
| -106M | 1.00  | 0.008 | 5.00 | 0.60  |
| -108M | 2.00  | 0.010 | 4.50 | 1.20  |
| -110M | 5.00  | 0.020 | 3.00 | 3.00  |
| -112M | 8.00  | 0.025 | 2.70 | 4.80  |
| -114M | 10.0  | 0.030 | 2.50 | 6.00  |
| -116M | 15.0  | 0.060 | 1.70 | 9.50  |
| -118M | 20.0  | 0.080 | 1.50 | 12.0  |
| -120M | 25.0  | 0.090 | 1.40 | 15.0  |
| -122M | 33.0  | 0.105 | 1.40 | 20.0  |
| -124M | 50.0  | 0.200 | 0.95 | 30.0  |
| -126M | 68.0  | 0.300 | 0.80 | 40.0  |
| -128M | 100.0 | 0.400 | 0.65 | 60.0  |
| -130M | 150.0 | 0.550 | 0.60 | 90.0  |
| -132M | 200.0 | 0.750 | 0.45 | 120.0 |
| -134M | 300.0 | 1.100 | 0.40 | 180.0 |

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

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

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

#### Physical Parameters

|   | Inches            | Millimeters     |
|---|-------------------|-----------------|
| A | $0.285 \pm 0.010$ | $7.24 \pm 0.25$ |
| B | $0.360 \pm 0.010$ | $9.14 \pm 0.25$ |
| C | $0.060 \pm 0.010$ | $1.52 \pm 0.25$ |
| D | $0.350 \pm 0.010$ | $8.90 \pm 0.25$ |
| E | $0.200 \pm 0.010$ | $5.08 \pm 0.25$ |
| F | $0.025 \pm 0.010$ | $0.64 \pm 0.25$ |
| G | 0.040 (Ref.)      | 1.02 (Ref.)     |

**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.

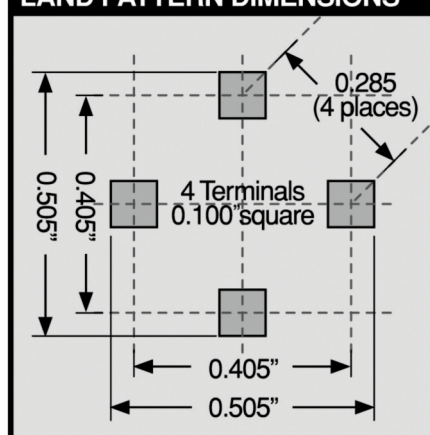
**Maximum Power Dissipation at 25°C** 0.230 Watts

**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. Note: RoHS component components will be marked with 4501R.

Example: 4501-102  
DELEVAN  
.47uH $\pm$ 20%

#### LAND PATTERN DIMENSIONS



#### Series Connected Specifications

**Inductance** Four (4) times parallel inductance specifications.

**DCR** Four (4) times parallel DCR specifications.

**Rated DC Current** minimum One-half of parallel Rated DC Current specifications.

**Packaging** Tape & reel (24mm):  
13" reel, 600 pieces max.; 7" reel not available

**Weight (Grams)** 1.0 (Ref.)

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