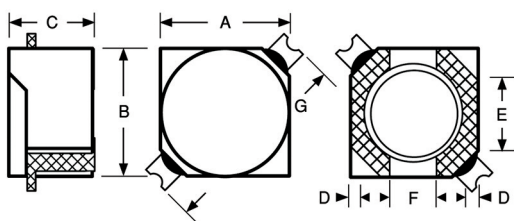


**SERIES****SPD42R**RoHS  
Compliant**Shielded Surface Mount Inductors**

Actual Size

**Mechanical Configuration**

Magnetically shielded surface mount power inductor ferrite core & shield.

**Physical Parameters**

|   | Inches        | Millimeters |
|---|---------------|-------------|
| A | 0.185 ± 0.012 | 4.7 ± 0.3   |
| B | 0.185 ± 0.012 | 4.7 ± 0.3   |
| C | 0.115 Max.    | 2.92 Max.   |
| D | 0.015 Ref.    | 0.38 Ref.   |
| E | 0.100 Ref.    | 2.54 Ref.   |
| F | 0.065 Ref.    | 1.65 Ref.   |
| G | 0.270 Ref.    | 6.86 Ref.   |
| H | 0.075 Ref.    | 1.90 Ref.   |
| I | 0.210 Ref.    | 5.30 Ref.   |
| J | 0.059 Ref.    | 1.50 Ref.   |

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

**Current Rating at 25°C Ambient** 40°C maximum temperature rise and 10% maximum decrease in inductance

**Application Frequency Range**

18 Inductance values from 1.2 µH to 100 µH

**Core Material** Ferrite

**Weight (Grams Max.)** 0.85

**Packaging** Tape & reel (12mm):

7" reel, 500 pieces max.

**Note:** No vias and traces in restricted area.

INDUCTANCE (µH) ±20%  
TEST FREQUENCY (kHz)  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (Amps)  
SRF TYPICAL (MHz)

| SERIES SPD42R |     |     |       |      |     |
|---------------|-----|-----|-------|------|-----|
| -122M         | 1.2 | 100 | 0.019 | 1.80 | 120 |
| -222M         | 2.2 | 100 | 0.023 | 1.35 | 77  |
| -332M         | 3.3 | 100 | 0.032 | 1.10 | 65  |
| -472M         | 4.7 | 100 | 0.045 | 0.90 | 55  |
| -682M         | 6.8 | 100 | 0.060 | 0.73 | 45  |
| -103M         | 10  | 100 | 0.083 | 0.58 | 37  |
| -123M         | 12  | 1.0 | 0.100 | 0.53 | 34  |
| -153M         | 15  | 1.0 | 0.115 | 0.46 | 30  |
| -183M         | 18  | 1.0 | 0.150 | 0.42 | 28  |
| -223M         | 22  | 1.0 | 0.160 | 0.38 | 25  |
| -273M         | 27  | 1.0 | 0.190 | 0.35 | 21  |
| -333M         | 33  | 1.0 | 0.215 | 0.32 | 18  |
| -393M         | 39  | 1.0 | 0.290 | 0.30 | 17  |
| -473M         | 47  | 1.0 | 0.320 | 0.28 | 16  |
| -563M         | 56  | 1.0 | 0.365 | 0.25 | 15  |
| -683M         | 68  | 1.0 | 0.480 | 0.22 | 14  |
| -823M         | 82  | 1.0 | 0.520 | 0.20 | 12  |
| -104M         | 100 | 1.0 | 0.700 | 0.12 | 11  |

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

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

**LAND PATTERN DIMENSIONS**