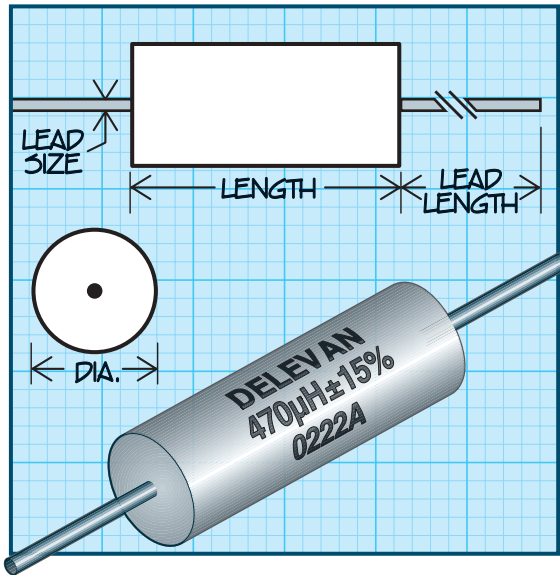


# Series 2474

## Axial Lead Power Inductors



**Mechanical Configuration** Units are axial leaded for thru-hole mounting, encapsulated in an epoxy molded case. High resistivity ferrite core, allows for high inductance with low DC resistance.

**Physical Parameters**

|             | Inches        | Millimeters   |
|-------------|---------------|---------------|
| Length      | 0.740 ± 0.010 | 18.80 ± 0.25  |
| Diameter    | 0.240 ± 0.010 | 6.10 ± 0.25   |
| Lead Size   |               |               |
| AWG #20 TCW | 0.032 ± 0.002 | 0.813 ± 0.051 |
| Lead Length | 1.44 ± 0.12   | 36.58 ± 3.05  |

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

**Current Rating** 40°C Rise over 85°C Ambient

**Maximum Power Dissipation at 85°C** .50 W

**Inductance** Measured at 1 V with no DC current

**Incremental Current** The current at which the inductance will be decreased by a maximum of 5% from its initial zero DC value.

**Weight Max.** (Grams) 2.5

**Packaging** Tape & reel: 12" reel, 1000 pieces max.; 14" reel, 1500 pieces max. For additional packaging options, see page 146.

Made in the U.S.A.

| PART NUMBER                                | INDUCTANCE @ 1 KHz<br>(µH) ± 15% | DC RESISTANCE<br>MAXIMUM (OHMS) | CURRENT RATING<br>MAXIMUM (Amps) | INCREMENTAL<br>CURRENT (Amps) |
|--|----------------------------------|---------------------------------|----------------------------------|-------------------------------|
| <b>SERIES 2474 FERRITE CORE</b>            |                                  |                                 |                                  |                               |
| 2474-01L                                   | 1.0                              | 0.009                           | 6.27                             | 6.4                           |
| 2474-02L                                   | 1.2                              | 0.010                           | 5.95                             | 5.8                           |
| 2474-03L                                   | 1.5                              | 0.011                           | 5.67                             | 5.2                           |
| 2474-04L                                   | 1.8                              | 0.012                           | 5.43                             | 4.8                           |
| 2474-05L                                   | 2.2                              | 0.013                           | 5.22                             | 4.3                           |
| 2474-06L                                   | 2.7                              | 0.014                           | 5.03                             | 3.9                           |
| 2474-07L                                   | 3.3                              | 0.016                           | 4.70                             | 3.5                           |
| 2474-08L                                   | 3.9                              | 0.017                           | 4.56                             | 3.2                           |
| 2474-09L                                   | 4.7                              | 0.022                           | 4.01                             | 2.9                           |
| 2474-10L                                   | 5.6                              | 0.024                           | 3.84                             | 2.7                           |
| 2474-11L                                   | 6.8                              | 0.026                           | 3.69                             | 2.5                           |
| 2474-12L                                   | 8.2                              | 0.028                           | 3.55                             | 2.2                           |
| 2474-13L                                   | 10.0                             | 0.033                           | 3.27                             | 2.0                           |
| 2474-14L                                   | 12.0                             | 0.037                           | 3.09                             | 1.8                           |
| 2474-15L                                   | 15.0                             | 0.040                           | 2.97                             | 1.6                           |
| 2474-16L                                   | 18.0                             | 0.044                           | 2.84                             | 1.5                           |
| 2474-17L                                   | 22.0                             | 0.050                           | 2.66                             | 1.4                           |
| 2474-18L                                   | 27.0                             | 0.070                           | 2.25                             | 1.2                           |
| 2474-19L                                   | 33.0                             | 0.075                           | 2.17                             | 1.1                           |
| 2474-20L                                   | 39.0                             | 0.084                           | 2.05                             | 1.0                           |
| 2474-21L                                   | 47.0                             | 0.104                           | 1.84                             | 0.93                          |
| 2474-22L                                   | 56.0                             | 0.130                           | 1.65                             | 0.85                          |
| 2474-23L                                   | 68.0                             | 0.145                           | 1.56                             | 0.77                          |
| 2474-24L                                   | 82.0                             | 0.152                           | 1.53                             | 0.71                          |
| 2474-25L                                   | 100.0                            | 0.208                           | 1.30                             | 0.64                          |
| 2474-26L                                   | 120.0                            | 0.283                           | 1.12                             | 0.58                          |
| 2474-27L                                   | 150.0                            | 0.330                           | 1.04                             | 0.52                          |
| 2474-28L                                   | 180.0                            | 0.362                           | 0.99                             | 0.48                          |
| 2474-29L                                   | 220.0                            | 0.505                           | 0.84                             | 0.43                          |
| 2474-30L                                   | 270.0                            | 0.557                           | 0.80                             | 0.39                          |
| 2474-31L                                   | 330.0                            | 0.650                           | 0.74                             | 0.35                          |
| 2474-32L                                   | 390.0                            | 0.770                           | 0.68                             | 0.32                          |
| 2474-33L                                   | 470.0                            | 1.03                            | 0.59                             | 0.29                          |
| 2474-34L                                   | 560.0                            | 1.14                            | 0.56                             | 0.27                          |
| 2474-35L                                   | 680.0                            | 1.50                            | 0.49                             | 0.25                          |
| 2474-36L                                   | 820.0                            | 1.98                            | 0.42                             | 0.22                          |
| 2474-37L                                   | 1000.0                           | 2.30                            | 0.39                             | 0.20                          |
| 2474-38L                                   | 1200.0                           | 2.55                            | 0.37                             | 0.18                          |
| 2474-39L                                   | 1500.0                           | 3.00                            | 0.34                             | 0.16                          |
| 2474-40L                                   | 1800.0                           | 4.00                            | 0.30                             | 0.15                          |
| 2474-41L                                   | 2200.0                           | 4.40                            | 0.28                             | 0.14                          |
| 2474-42L                                   | 2700.0                           | 5.80                            | 0.25                             | 0.12                          |
| 2474-43L                                   | 3300.0                           | 6.56                            | 0.23                             | 0.11                          |
| 2474-44L                                   | 3900.0                           | 8.63                            | 0.20                             | 0.10                          |
| 2474-45L                                   | 4700.0                           | 10.1                            | 0.19                             | 0.09                          |
| 2474-46L                                   | 5600.0                           | 11.2                            | 0.18                             | 0.09                          |
| 2474-47L                                   | 6800.0                           | 15.0                            | 0.15                             | 0.08                          |
| 2474-48L                                   | 8200.0                           | 20.8                            | 0.13                             | 0.07                          |
| 2474-49L                                   | 10000.0                          | 23.4                            | 0.12                             | 0.06                          |
| 2474-50L                                   | 12000.0                          | 26.0                            | 0.12                             | 0.06                          |
| 2474-51L                                   | 15000.0                          | 36.0                            | 0.10                             | 0.05                          |
| 2474-52L                                   | 18000.0                          | 40.0                            | 0.09                             | 0.05                          |
| <b>Optional Tolerances: K = 10% J = 5%</b> |                                  |                                 |                                  |                               |

POWER INDUCTORS