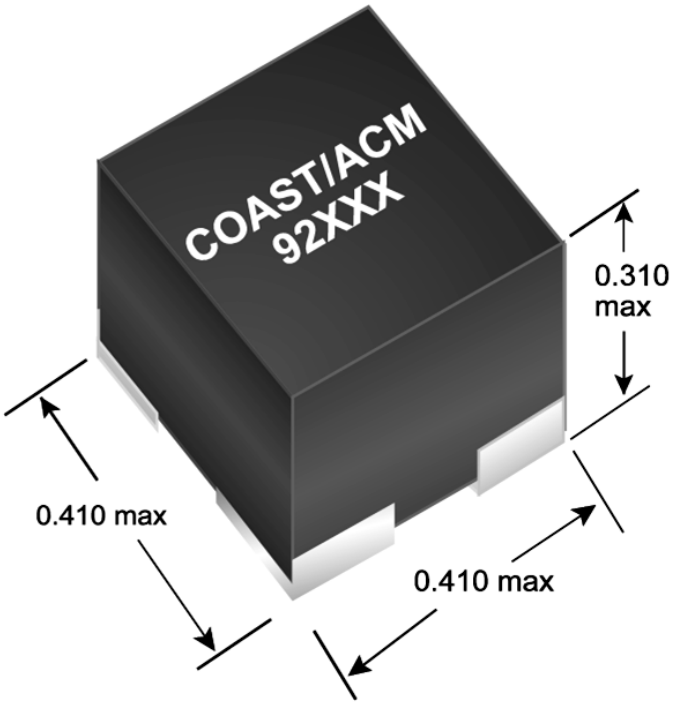
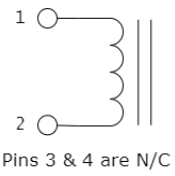
# Power Inductors – 92000C Series



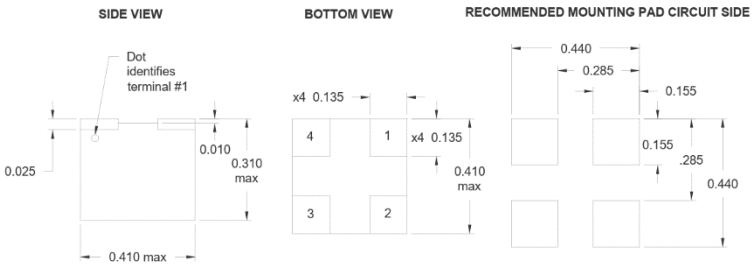



BACK-SIDE VIEW




| IN | MM |
|---|---|
| 0.440 | 11.18 |
| 0.410 | 10.41 |
| 0.310 | 7.87 |
| 0.285 | 7.24 |
| 0.155 | 3.94 |
| 0.135 | 3.43 |
| 0.025 | 0.64 |
| 0.010 | 0.25 |

MIL-PRF-27




## SPECIFICATIONS

- **Inductance:** 15 µH to 3000 µH
- **Standard Tolerance:** ±10%
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- **Inductance measured at** 0.1 Vrms, 10 kHz, 0 DC current
- **Standard Termination Finish:** Tin-lead
- **Weight:** 35.4 gram, maximum
- **Dielectric Withstanding Voltage:** Method 301 of MIL-STD-202, test voltage 200 Vrms
- **Glass Transition Temperature ($T_g$):** 165°C
- **Coefficient of Thermal Expansion (CTE):**
  - Before $T_g$ 18 ppm/°C
  - After $T_g$ 54 ppm/°C

## FEATURES

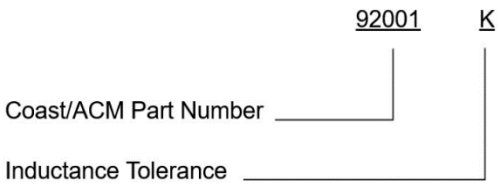
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Termination Finish Options available (additional charge)
- Tighter Tolerances available (additional charge)
- Tape and Reel Packaging available (additional charge)
  - Full Reel Quantity (Small): 200 pieces
  - Full Reel Quantity (Large): 650 pieces
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package type
- Available for Space Application per MIL-STD-981 (see S92000C Series)

## APPLICATIONS

Designed to meet the requirements of MIL-PRF-27 ensuring optimal performance in military-grade applications.

This specification pertains to molded, shielded electrical connectors and accessories, emphasizing reliability and robustness. Ideal for aerospace and defense applications, these inductors offer both durability and precision.

## PART IDENTIFYING NUMBER




***K: Inductance Tolerance***

*M: ±20%  K: ±10%  J: ±5%*

# Power Inductors – 92000C Series

| C/ACM P/N | Inductance ±10 percent (µH) | DCR (max) ohms | Current (max) mA |
|---|---|---|---|
| 92301 | 15 | 0.035 | 2000 |
| 92302 | 18 | 0.047 | 1900 |
| 92303 | 20 | 0.051 | 1700 |
| 92304 | 22 | 0.055 | 1600 |
| 92305 | 25 | 0.064 | 1550 |
| 92306 | 27 | 0.074 | 1500 |
| 92307 | 30 | 0.078 | 1420 |
| 92308 | 33 | 0.083 | 1350 |
| 92309 | 39 | 0.088 | 1300 |
| 92310 | 47 | 0.119 | 1100 |
| 92311 | 50 | 0.125 | 1050 |
| 92312 | 56 | 0.131 | 1000 |
| 92313 | 68 | 0.188 | 950 |
| 92314 | 75 | 0.203 | 920 |
| 92315 | 82 | 0.218 | 890 |
| 92316 | 100 | 0.284 | 800 |
| 92317 | 120 | 0.312 | 730 |
| 92318 | 150 | 0.429 | 650 |
| 92319 | 180 | 0.478 | 590 |
| 92320 | 200 | 0.501 | 565 |
| 92321 | 220 | 0.524 | 540 |
| 92322 | 250 | 0.630 | 510 |
| 92323 | 270 | 0.737 | 480 |
| 92324 | 300 | 0.780 | 450 |
| 92325 | 330 | 0.824 | 430 |
| 92326 | 350 | 0.977 | 415 |
| 92327 | 390 | 1.13 | 400 |
| 92328 | 470 | 1.25 | 360 |
| 92329 | 500 | 1.3 | 340 |
| 92330 | 560 | 1.35 | 330 |
| 92331 | 680 | 1.88 | 300 |
| 92332 | 750 | 1.97 | 290 |
| 92333 | 820 | 2.07 | 280 |
| 92334 | 1000 | 2.88 | 250 |
| 92335 | 1200 | 3.15 | 230 |
| 92336 | 1500 | 4.35 | 200 |
| 92337 | 1800 | 4.74 | 180 |
| 92338 | 2000 | 5.69 | 175 |
| 92339 | 2200 | 6.64 | 170 |
| 92340 | 2700 | 7.38 | 150 |
| 92341 | 3000 | 7.72 | 140 |