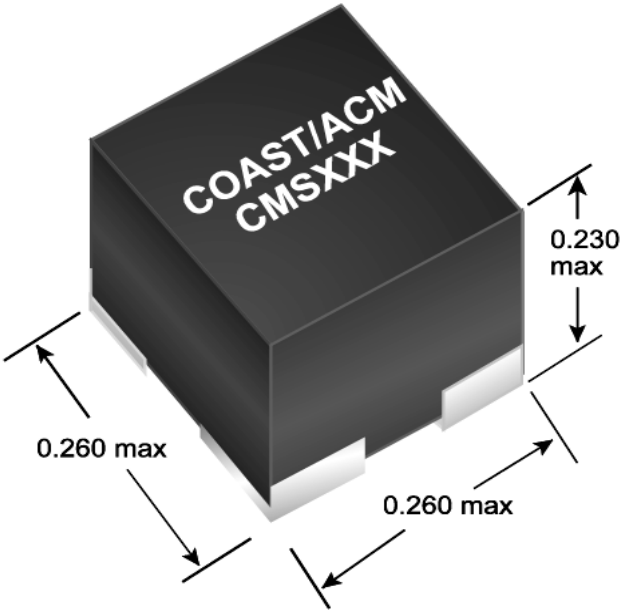
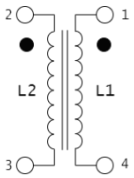
# Common Mode Inductors – CMS100 Series



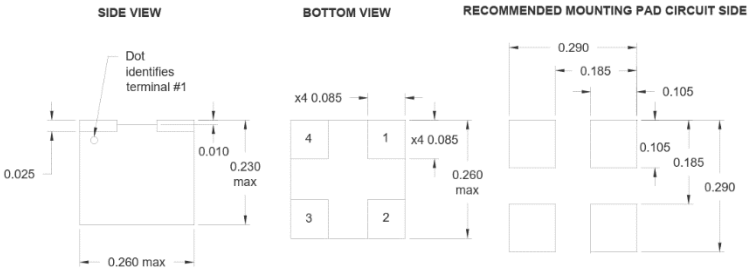



BACK-SIDE VIEW




| IN | MM |
|---|---|
| 0.290 | 7.37 |
| 0.260 | 6.60 |
| 0.230 | 5.84 |
| 0.185 | 4.70 |
| 0.105 | 2.67 |
| 0.085 | 2.16 |
| 0.025 | 0.64 |
| 0.010 | 0.25 |

MIL-PRF-27




## SPECIFICATIONS

- **Inductance:** 0.05 mH to 0.75 mH
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +130°C
- Inductance measured at 10 kHz
- **Standard Termination Finish:** Tin-lead
- **Weight:** 35.4 gram, maximum
- **Dielectric Withstanding Voltage:** 500 Vac
- **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
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 300 pieces
  Full Reel Quantity (Large): 1000 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 SCMS100 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

CMS001

Coast/ACM Part Number

***K: Inductance Tolerance***

*M: ±20%  K: ±10%  J: ±5%*

# Common Mode Inductors – CMS100 Series

| Part Number | Inductance Min (mH) | DCR (max) ohms | Current Rated Max (A) |
|---|---|---|---|
| CMS101 | 0.050 | 0.03 | 1.4 |
| CMS102 | 0.075 | 0.05 | 1.3 |
| CMS103 | 0.100 | 0.06 | 1.2 |
| CMS104 | 0.250 | 0.09 | 1.0 |
| CMS105 | 0.500 | 0.22 | 0.5 |
| CMS106 | 0.750 | 0.28 | 0.3 |