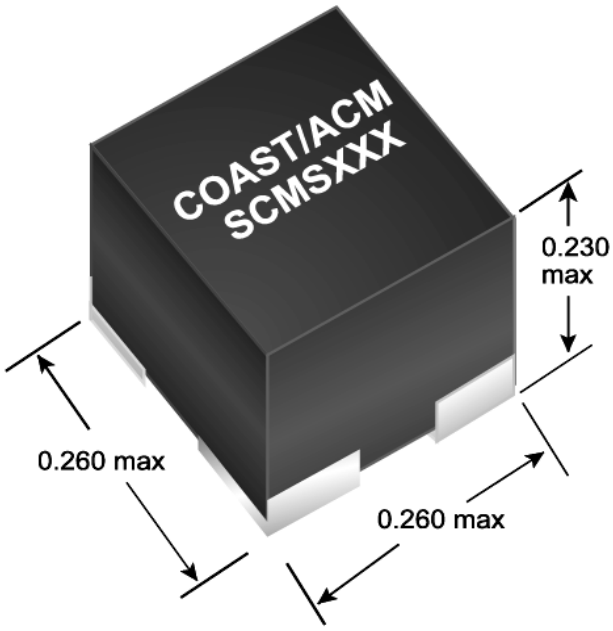
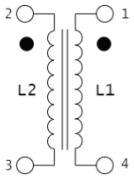
Common Mode Inductors – SCMS100 Series



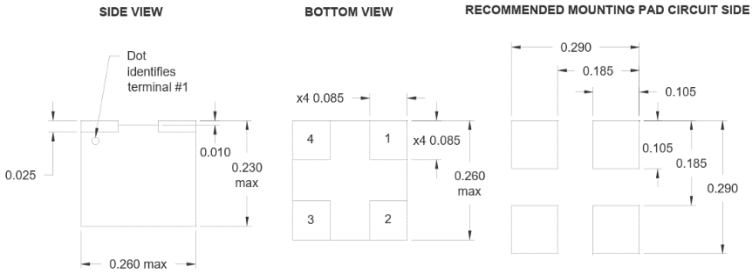


BACK-SIDE VIEW



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-STD-981
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
- Temperature rise at rated DC current is less than 30°C
- Inductance measured at 10 kHz
- Moisture, Shock, and Immersion Resistant
- **Resistance to Soldering Heat:** 265°C for 10 sec
- **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
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- 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

APPLICATIONS

These components meet the requirements of MIL-PRF-27 and MIL-STD-981, Class S or Class B classifications:

- **Class S:** Specifically engineered for critical flight operations and essential ground support missions, as well as any application where safety is critical. These components undergo a stringent quality validation process, which includes both Group A and Group B screening as per the requirements of MIL-STD-981.
- **Class B:** Suited for non-critical flight operations and non-essential ground support missions. The quality assurance process for these components encompasses Group A screening as per the requirements of MIL-STD-981.

PART IDENTIFYING NUMBER

SCMS001 S

Coast/ACM Part Number

Product Class

K: Inductance Tolerance
M: ±20% *K: ±10%* *J: ±5%*

S: Product Class
S: Class S *B: Class B*

Common Mode Inductors – SCMS100 Series

Part Number	Inductance Min (mH)	DCR (max) ohms	Current Rated Max (A)
SCMS101	0.050	0.03	1.4
SCMS102	0.075	0.05	1.3
SCMS103	0.100	0.06	1.2
SCMS104	0.250	0.09	1.0
SCMS105	0.500	0.22	0.5
SCMS106	0.750	0.28	0.3