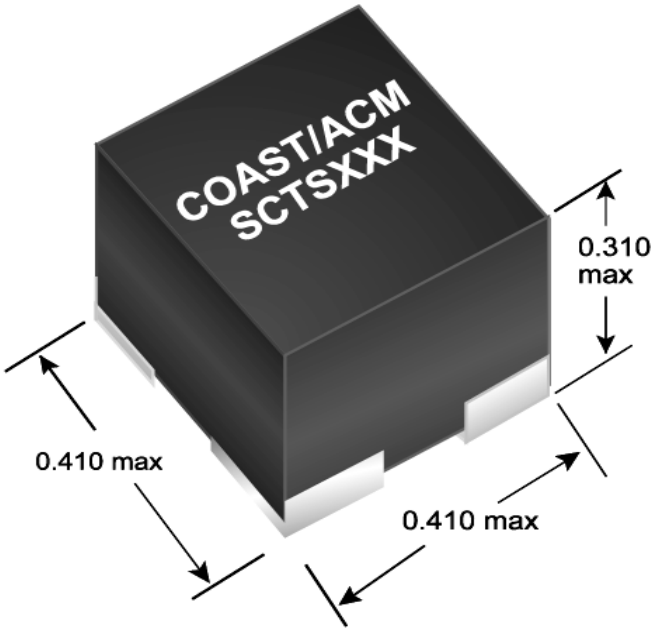
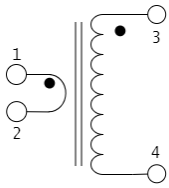
Current Transformers – SCTS300 Series





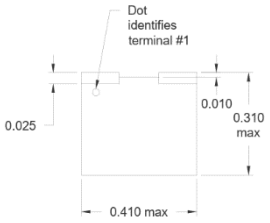
BACK-SIDE VIEW



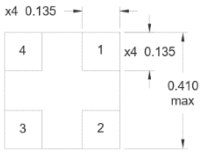
IN	MM
0.440	11.18
0.410	10.41
0.310	7.87
0.285	7.24
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25

MIL-STD-981
MIL-PRF-27

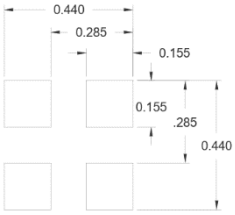
SIDE VIEW



BOTTOM VIEW



RECOMMENDED MOUNTING PAD CIRCUIT SIDE



SPECIFICATIONS

- **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): 200 pieces
  Full Reel Quantity (Large): 650 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

SCTS001 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*

Current Transformers – SCTS300 Series

Part Number	Current Peak Max (A)	Volt-Sec Min (v-µsec)	DCR Max (Ω)	Inductance Reference (mH)	Turns Ratio
SCTS301	20	40	1.20	4.40	1 : 50
SCTS302	10	80	7.90	35.00	1 : 200