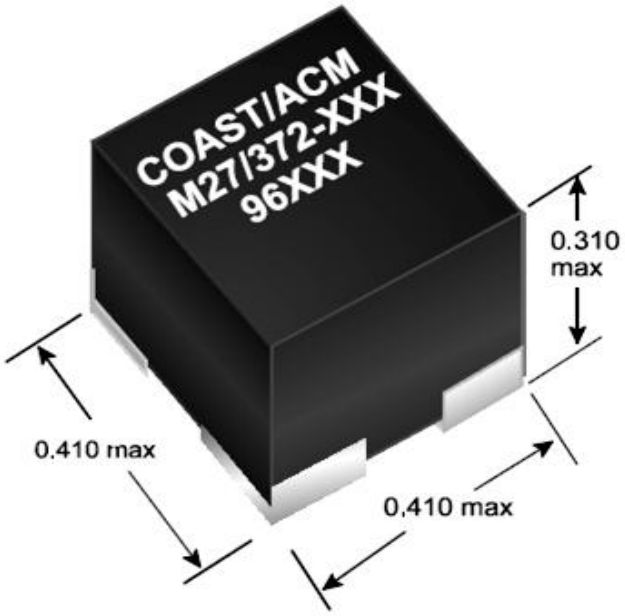
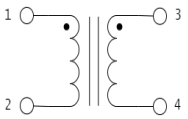
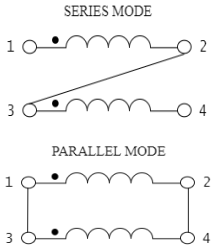
Power Inductors – 96000C Series





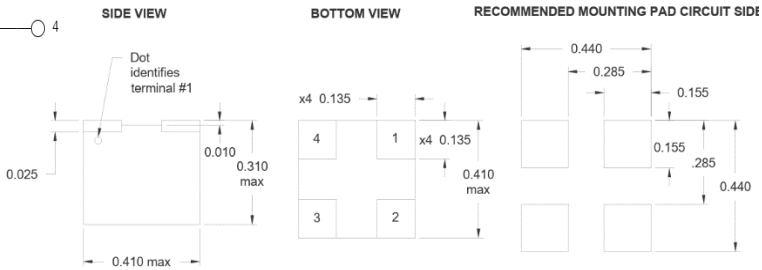
BACK-SIDE VIEW





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:** 0.1 mH to 10 mH (Series)
  0.025 mH to 2.5 mH (Parallel)
- **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

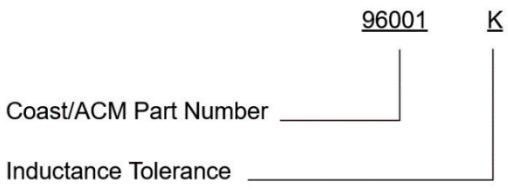
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 200 pieces
  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 S93000C Series)

APPLICATIONS

Designed to meet the requirements of MIL-PRF-27/372 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 – 96000C Series

Dash Number	C/ACM P/N	Series			Parallel			Power Rating (mW)
		Inductance (mH) ±10 percent	Rated DC Current (mA)	DC Resistance Max (Ω)	Inductance (mH) ±10 percent	Rated DC Current (mA)	DC Resistance Max (Ω)	
MIL-PRF-27/372-003	96003	0.100	780	0.37	0.025	1560	0.093	300
MIL-PRF-27/372-007	96007	0.250	530	0.82	0.062	1060	0.205	300
MIL-PRF-27/372-011	96011	0.500	380	1.62	0.125	760	0.405	300
MIL-PRF-27/372-015	96015	0.750	310	2.50	0.187	620	0.625	300
MIL-PRF-27/372-019	96019	1.000	270	3.37	0.250	540	0.843	300
MIL-PRF-27/372-023	96023	2.000	190	6.75	0.500	380	1.690	300
MIL-PRF-27/372-027	96027	3.000	160	10.12	0.750	320	2.530	300
MIL-PRF-27/372-031	96031	5.000	120	16.87	1.250	240	4.220	300
MIL-PRF-27/372-035	96035	7.500	100	25.37	1.875	200	6.350	300
MIL-PRF-27/372-039	96039	10.000	80	33.75	2.500	160	8.440	300