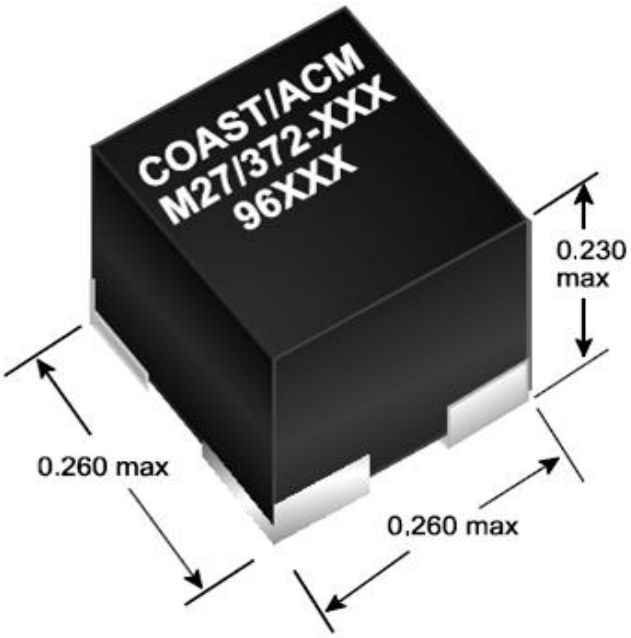
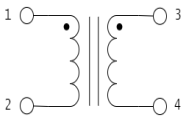
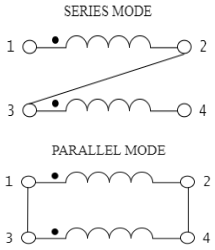
Power Inductors – 96000A Series





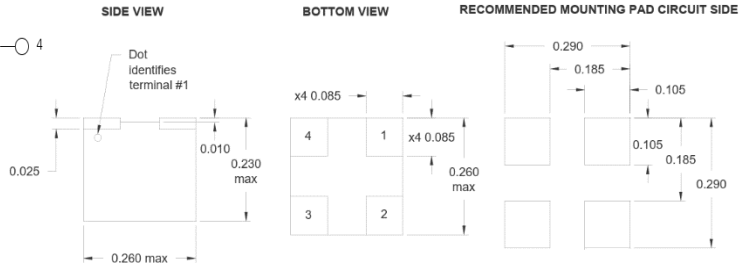
BACK-SIDE VIEW





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:** 0.1 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

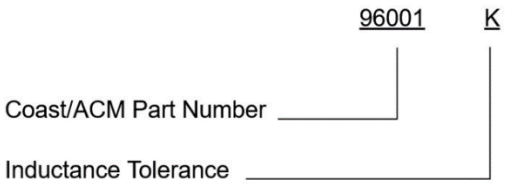
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 300 pieces
  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 S93000A 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 – 96000A 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-27/372-001	96001	0.100	300	1.60	0.025	600	0.400	125
MIL-PRF-27/372-005	96005	0.250	200	3.11	0.062	400	0.778	125
MIL-PRF-27/372-009	96009	0.500	150	6.14	0.125	300	1.535	125
MIL-PRF-27/372-013	96013	0.750	120	9.45	0.187	240	2.363	125
MIL-PRF-27/372-017	96017	1.000	95	12.85	0.250	190	3.213	125
MIL-PRF-27/372-021	96021	2.000	75	25.60	0.500	150	6.400	125
MIL-PRF-27/372-025	96025	3.000	60	38.40	0.750	120	9.600	125
MIL-PRF-27/372-029	96029	5.000	45	64.00	1.250	90	16.000	125
MIL-PRF-27/372-033	96033	7.500	30	96.00	1.875	60	24.000	125
MIL-PRF-27/372-037	96037	10.000	20	128.00	2.500	40	32.000	125