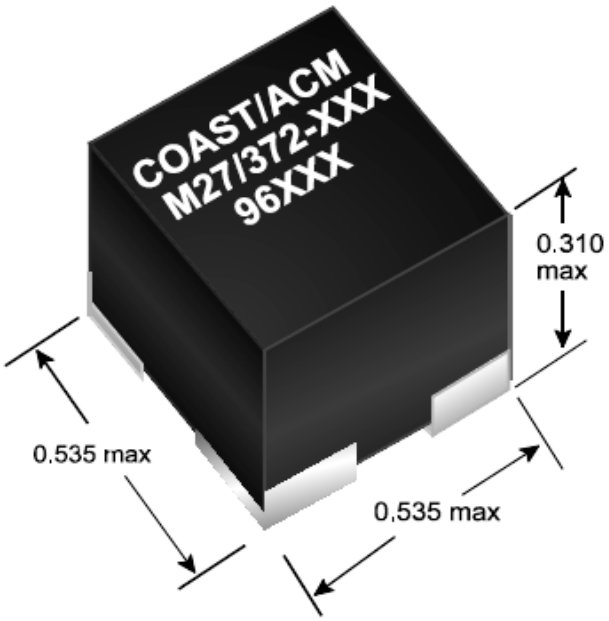
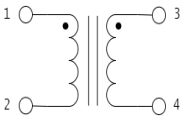
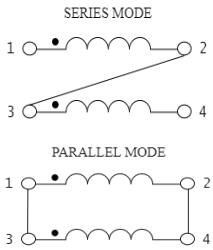
Power Inductors – 96000D Series





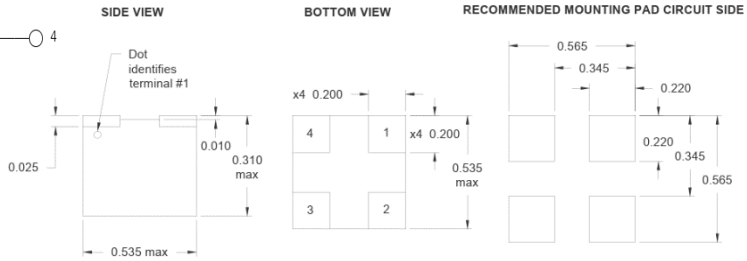
BACK-SIDE VIEW





IN	MM
0.565	14.35
0.535	13.59
0.345	8.76
0.310	7.87
0.220	5.59
0.200	5.08
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

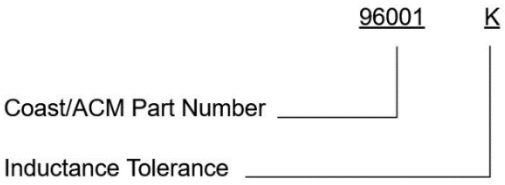
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 200 pieces
  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 – 96000D 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-27/372-004	96004	0.100	1350	0.21	0.025	2700	0.053	450
MIL-PRF-27/372-008	96008	0.250	930	0.41	0.062	1860	0.103	450
MIL-PRF-27/372-012	96012	0.500	660	0.82	0.125	1320	0.205	450
MIL-PRF-27/372-016	96016	0.750	540	1.25	0.187	1080	0.313	450
MIL-PRF-27/372-020	96020	1.000	470	1.87	0.250	940	0.468	450
MIL-PRF-27/372-024	96024	2.000	330	3.62	0.500	660	0.910	450
MIL-PRF-27/372-028	96028	3.000	270	5.50	0.750	540	1.380	450
MIL-PRF-27/372-032	96032	5.000	210	9.12	1.250	420	2.280	450
MIL-PRF-27/372-036	96036	7.500	170	13.75	1.875	340	3.440	450
MIL-PRF-27/372-040	96040	10.000	140	18.25	2.500	280	4.570	450