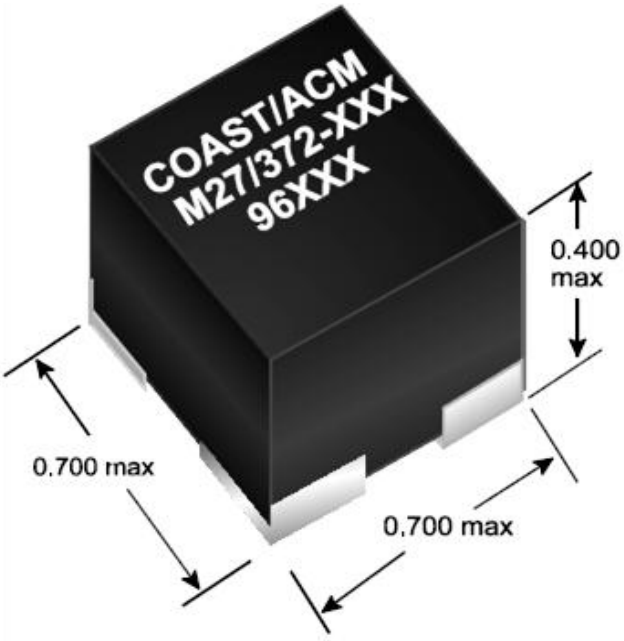
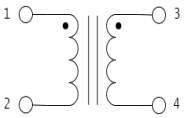
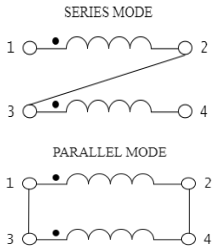
Power Inductors – 96000E Series





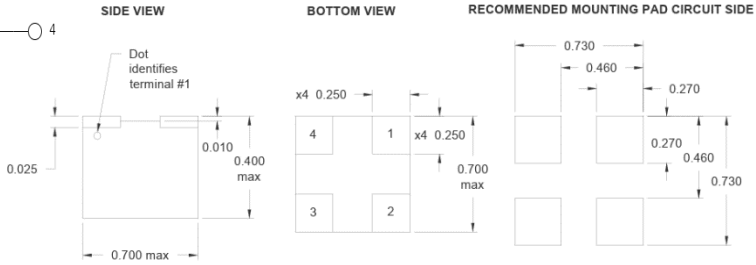
BACK-SIDE VIEW





IN	MM
0.730	18.54
0.700	17.78
0.460	11.68
0.400	10.16
0.270	6.86
0.250	6.35
0.025	0.64
0.010	0.25

MIL-PRF-27



SPECIFICATIONS

- **Inductance:** 11 µH to 10,000 µH (Series)
  2.75 µH to 2,500 µH (Series (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

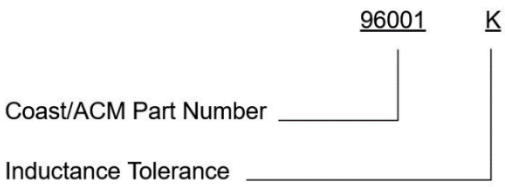
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity: 650 pieces
- 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 S93000E 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: ±12% J: ±5%

Power Inductors – 96000E Series

Dash Number	C/ ACM P/N	Series			Parallel		
		Inductance (µH) ±12 percent	Rated DC Current (mA)	DC Resistance Max (Ω)	Inductance (µH) ±12 percent	Rated DC Current (mA)	DC Resistance Max (Ω)
MIL-PRF-27/372-041	96041	11	4800	0.024	2.76	9600	0.006
MIL-PRF-27/372-042	96042	18	3700	0.036	4.50	7400	0.009
MIL-PRF-27/372-043	96043	27	3000	0.052	6.75	6000	0.013
MIL-PRF-27/372-044	96044	38	2500	0.076	9.50	5000	0.019
MIL-PRF-27/372-045	96045	44	2400	0.084	11	4800	0.021
MIL-PRF-27/372-046	96046	100	1600	0.20	25	3200	0.050
MIL-PRF-27/372-047	96047	200	1100	0.46	50	2200	0.115
MIL-PRF-27/372-048	96048	400	800	0.84	100	1600	0.210
MIL-PRF-27/372-049	96049	500	710	1.16	125	1420	0.290
MIL-PRF-27/372-050	96050	760	670	1.76	167.60	1140	0.440
MIL-PRF-27/372-051	96051	1000	500	2.00	250	1000	0.500
MIL-PRF-27/372-052	96052	2000	350	4.32	500	700	1.075
MIL-PRF-27/372-053	96053	3000	290	6.64	750	580	1.660
MIL-PRF-27/372-054	96054	4000	250	7.68	1000	500	1.920
MIL-PRF-27/372-055	96055	7500	180	16.20	1875	360	4.050
MIL-PRF-27/372-056	96056	10,000	150	18.80	2500	300	4.070
MIL-PRF-27/372-057	96057	11	6000	0.020	2.75	12,000	0.005
MIL-PRF-27/372-058	96058	18	4600	0.032	4.50	9200	0.008
MIL-PRF-27/372-059	96059	27	3700	0.044	6.75	7400	0.011
MIL-PRF-27/372-060	96060	38	3100	0.064	9.50	6200	0.016
MIL-PRF-27/372-061	96061	44	3000	0.068	11	6000	0.017
MIL-PRF-27/372-062	96062	100	2000	0.152	25	4000	0.038
MIL-PRF-27/372-063	96063	200	1300	0.340	50	2600	0.085
MIL-PRF-27/372-064	96064	400	890	0.600	100	1780	0.150
MIL-PRF-27/372-065	96065	500	800	0.848	125	1600	0.212
MIL-PRF-27/372-066	96066	750	700	1.32	187.50	1400	0.330
MIL-PRF-27/372-067	96067	1000	600	1.52	250	1200	0.380
MIL-PRF-27/372-068	96068	2000	430	3.40	500	860	0.850
MIL-PRF-27/372-069	96069	3000	360	5.20	750	720	1.300
MIL-PRF-27/372-070	96070	4000	310	6.08	1000	620	1.520
MIL-PRF-27/372-071	96071	7500	220	13.20	1875	440	3.300
MIL-PRF-27/372-072	96072	10,000	180	15.20	2500	360	3.800