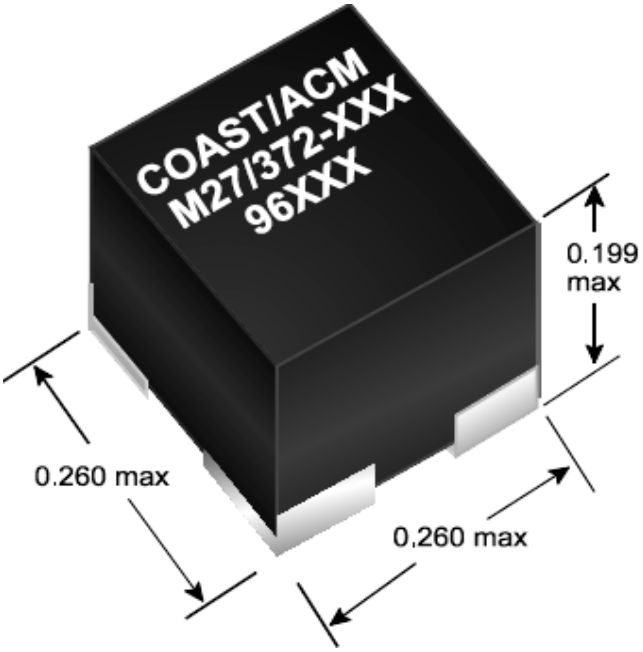
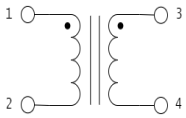
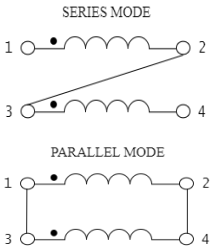
Power Inductors – 96000F Series





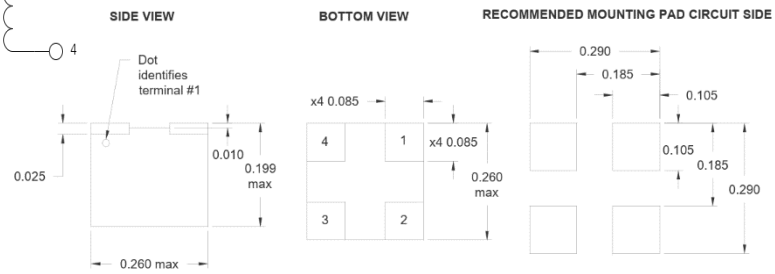
BACK-SIDE VIEW





IN	MM
0.290	7.37
0.260	6.60
0.199	5.05
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:** 0.08 µH to 100 µH (Series)
  0.02 µH to 25 µH (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

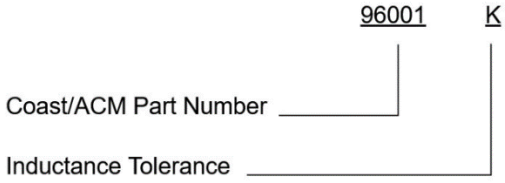
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 300 pieces
  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 S93000F 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 – 96000F 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-27/372-073	96073	.08	3300	0.020	.020	6600	0.005
MIL-PRF-27/372-074	96074	.14	2800	0.024	.035	5600	0.006
MIL-PRF-27/372-075	96075	.22	2400	0.036	.055	4600	0.009
MIL-PRF-27/372-076	96076	.44	1800	0.056	.110	3600	0.014
MIL-PRF-27/372-077	96077	.56	1500	0.072	.140	3000	0.018
MIL-PRF-27/372-078	96078	.60	2300	0.036	.150	4600	0.009
MIL-PRF-27/372-079	96079	.86	1900	0.048	.215	3800	0.012
MIL-PRF-27/372-080	96080	1.30	1900	0.048	.340	3800	0.012
MIL-PRF-27/372-081	96081	1.86	1800	0.052	.465	3600	0.013
MIL-PRF-27/372-082	96082	2.44	1700	0.060	.610	3400	0.015
MIL-PRF-27/372-083	96083	3.46	1500	0.064	.865	3000	0.016
MIL-PRF-27/372-084	96084	4.40	1200	0.080	1.10	2400	0.020
MIL-PRF-27/372-085	96085	5.40	1000	0.120	1.35	2000	0.030
MIL-PRF-27/372-086	96086	7.80	950	0.160	1.95	1900	0.040
MIL-PRF-27/372-087	96087	10.60	850	0.240	2.65	1700	0.060
MIL-PRF-27/372-088	96088	12.16	800	0.260	3.04	1600	0.065
MIL-PRF-27/372-089	96089	13.80	750	0.280	3.45	1500	0.070
MIL-PRF-27/372-090	96090	17.48	650	0.360	4.37	1300	0.090
MIL-PRF-27/372-091	96091	19.52	600	0.400	4.88	1200	0.100
MIL-PRF-27/372-092	96092	10.60	550	0.500	5.40	1100	0.125
MIL-PRF-27/372-093	96093	26.20	500	0.560	6.55	1000	0.140
MIL-PRF-27/372-094	96094	31.20	450	0.600	7.80	900	0.150
MIL-PRF-27/372-095	96095	48.60	400	0.900	12.15	800	0.225
MIL-PRF-27/372-096	96096	58.80	350	1.30	14.70	700	0.325
MIL-PRF-27/372-097	96097	78.00	300	1.52	19.50	600	0.380
MIL-PRF-27/372-098	96098	90.80	280	2.20	22.70	560	0.550
MIL-PRF-27/372-099	96099	100	250	2.40	25.00	500	0.600