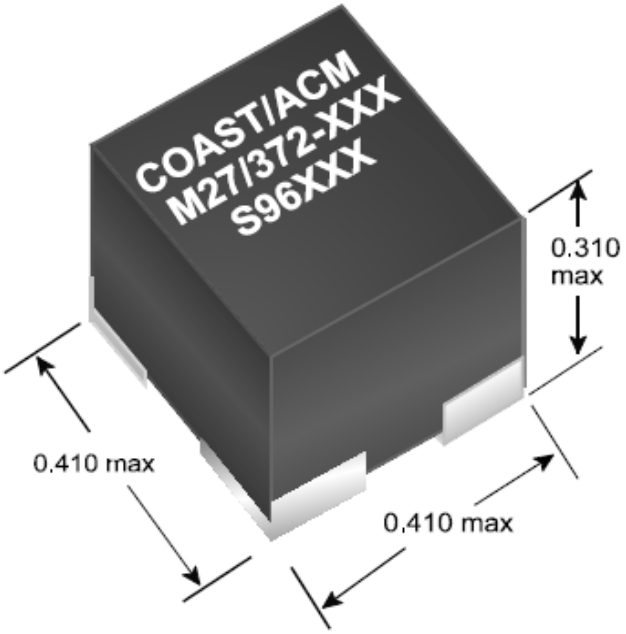
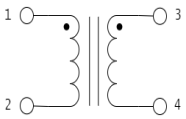
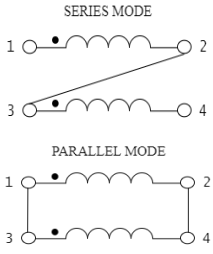
Power Inductors – S96000C Series





BACK-SIDE VIEW

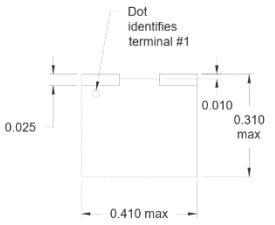




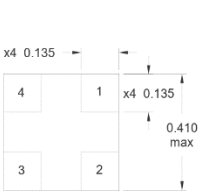
IN	MM
0.440	11.18
0.410	10.41
0.310	7.87
0.285	7.24
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25

MIL-STD-981
MIL-PRF-27

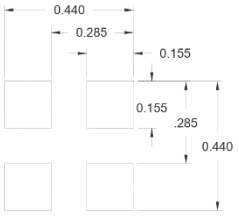
SIDE VIEW



BOTTOM VIEW



RECOMMENDED MOUNTING PAD CIRCUIT SIDE



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
- **Temperature rise (at 90°C):** 35°C
- **Terminal Solderability:** MIL-STD-202, Method 208
- **Inductance measured at** 0.1 Vrms, 10 kHz, 0 DC current
- **Insulation Resistance**: MIL-STD-202, Method 302, 1000 megohms minimum at 100 Vdc
- **Terminal Strength**: MIL-STD-202, Method 211, test condition A, 2 lbs
- **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
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- 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

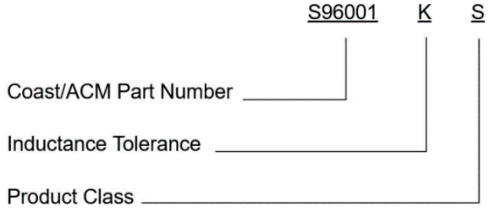
APPLICATIONS

These components meet the requirements of MIL-PRF-27/372 and MIL-STD-981, Class S or Class B classifications:

- **Class S:** Specifically engineered for critical flight operations and essential ground support missions, as well as any application where safety is critical. These components undergo a stringent quality validation process, which includes both Group A and Group B screening as per the requirements of MIL-STD-981.

- **Class B:** Suited for non-critical flight operations and non-essential ground support missions. The quality assurance process for these components encompasses Group A screening as per the requirements of MIL-STD-981.

PART IDENTIFYING NUMBER



K: Inductance Tolerance
M: ±20% K: ±10% J: ±5%

S: Product Class
S: Class S B: Class B

Power Inductors – S96000C 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	S96003	0.100	780	0.37	0.025	1560	0.093	300
MIL-PRF-27/372-007	S96007	0.250	530	0.82	0.062	1060	0.205	300
MIL-PRF-27/372-011	S96011	0.500	380	1.62	0.125	760	0.405	300
MIL-PRF-27/372-015	S96015	0.750	310	2.50	0.187	620	0.625	300
MIL-PRF-27/372-019	S96019	1.000	270	3.37	0.250	540	0.843	300
MIL-PRF-27/372-023	S96023	2.000	190	6.75	0.500	380	1.690	300
MIL-PRF-27/372-027	S96027	3.000	160	10.12	0.750	320	2.530	300
MIL-PRF-27/372-031	S96031	5.000	120	16.87	1.250	240	4.220	300
MIL-PRF-27/372-035	S96035	7.500	100	25.37	1.875	200	6.350	300
MIL-PRF-27/372-039	S96039	10.000	80	33.75	2.500	160	8.440	300