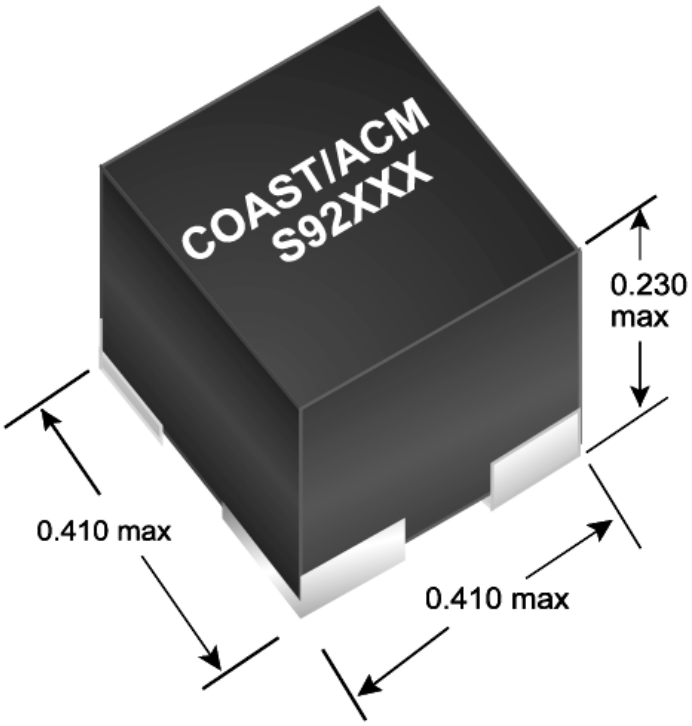
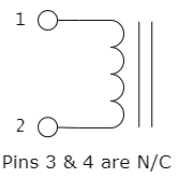
Power Inductors – S92000B Series



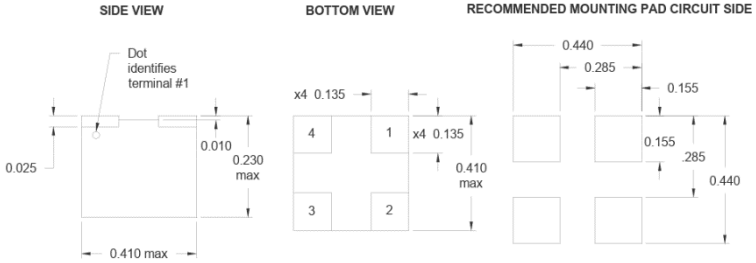


BACK-SIDE VIEW



IN	MM
0.440	11.18
0.410	10.41
0.285	7.24
0.230	5.84
0.155	3.94
0.135	3.43
0.025	0.64
0.010	0.25

MIL-STD-981
MIL-PRF-27



SPECIFICATIONS

- **Inductance:** 15 µH to 3000 µH
- **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%
- Termination Finish Options available (additional charge)
- Tighter Tolerances available (additional charge)
- 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

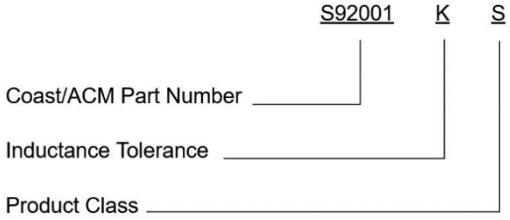
APPLICATIONS

These components meet the requirements of MIL-PRF-27 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 – S92000B Series

C/ACM P/N	Inductance ±10 percent (µH)	DCR (max) ohms	Current (max) mA
S92201	15	0.069	1460
S92202	18	0.073	1380
S92203	20	0.078	1300
S92204	22	0.081	1240
S92205	25	0.100	1180
S92206	27	0.114	1130
S92207	30	0.120	1050
S92208	33	0.130	1000
S92209	39	0.177	920
S92210	47	0.196	830
S92211	50	0.200	800
S92212	56	0.209	780
S92213	68	0.263	710
S92214	75	0.285	670
S92215	82	0.315	640
S92216	100	0.443	580
S92217	120	0.484	530
S92218	150	0.694	470
S92219	180	0.760	430
S92220	200	0.800	410
S92221	220	0.84	390
S92222	250	1.00	370
S92223	270	1.18	350
S92224	300	1.22	330
S92225	330	1.29	320
S92226	350	1.50	300
S92227	390	1.76	290
S92228	470	1.94	260
S92229	500	2.00	250
S92230	560	2.12	240
S92231	680	2.88	220
S92232	750	3.00	210
S92233	820	3.16	200
S92234	1000	4.42	180
S92235	1200	4.84	160
S92236	1500	7.10	140
S92237	1800	7.77	120
S92238	2000	8.00	115
S92239	2200	8.58	112
S92240	2700	12.11	110
S92241	3000	13.00	100