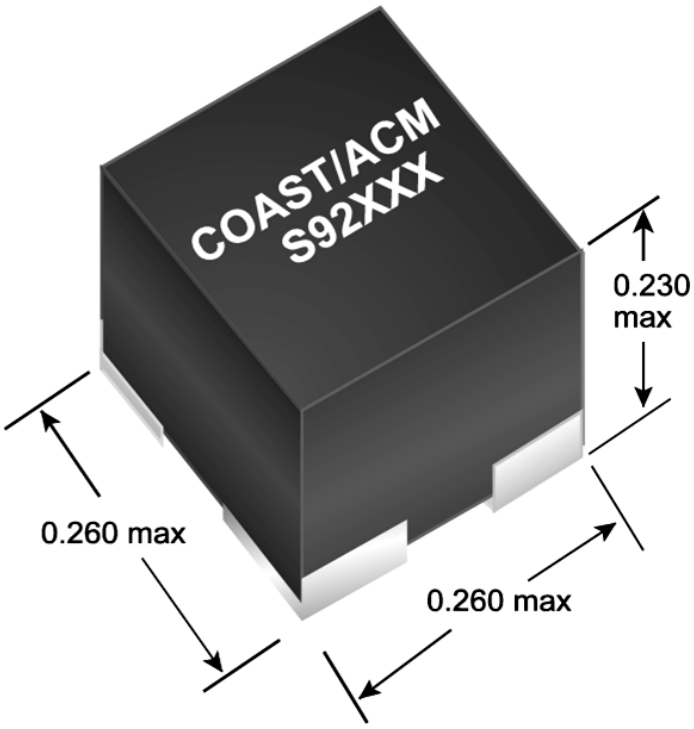
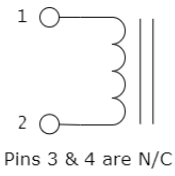
Power Inductors – S92000A Series



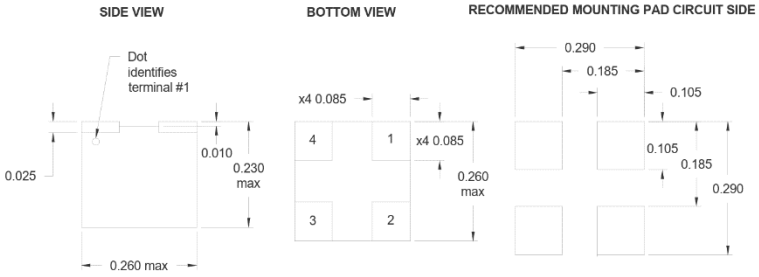


BACK-SIDE VIEW



IN	MM
0.290	7.37
0.260	6.60
0.230	5.84
0.185	4.70
0.105	2.67
0.085	2.16
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

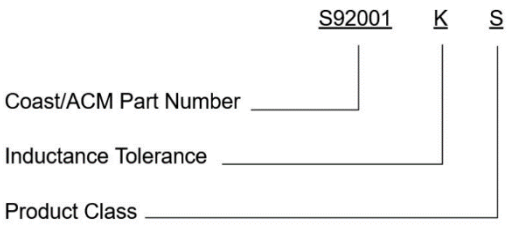
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- Termination Finish Options available (additional charge)
- Tighter Tolerances available (additional charge)
- Tape and Reel Packaging available (additional charge)
  Full Reel Quantity (Small): 300 pieces
  Full Reel Quantity (Large): 1000 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 – S92000A Series

C/ACM P/N	Inductance ±10 percent (µH)	DC Resistance max (ohms)	Rated DC Current (mA)
S92101	15	0.11	820
S92102	18	0.12	750
S92103	20	0.15	720
S92104	22	0.16	690
S92105	25	0.17	650
S92106	27	0.18	610
S92107	30	0.22	580
S92108	33	0.25	550
S92109	39	0.27	520
S92110	47	0.30	460
S92111	50	0.32	440
S92112	56	0.33	430
S92113	68	0.36	390
S92114	75	0.38	370
S92115	82	0.39	350
S92116	100	0.71	320
S92117	120	0.78	290
S92118	150	0.88	260
S92119	180	1.20	240
S92120	200	1.25	230
S92121	220	1.3	220
S92122	250	1.6	200
S92123	270	1.8	190
S92124	300	1.9	180
S92125	330	2.0	170
S92126	350	2.5	165
S92127	390	2.8	160
S92128	470	3.0	140
S92129	500	3.1	135
S92130	560	3.3	130
S92131	680	4.7	120
S92132	750	5.1	115
S92133	820	5.2	110
S92134	1000	7.3	100
S92135	1200	8.0	93
S92136	1500	11.0	83
S92137	1800	12.1	75
S92138	2000	15.0	70
S92139	2200	16.8	68
S92140	2700	18.6	62
S92141	3000	24.7	59