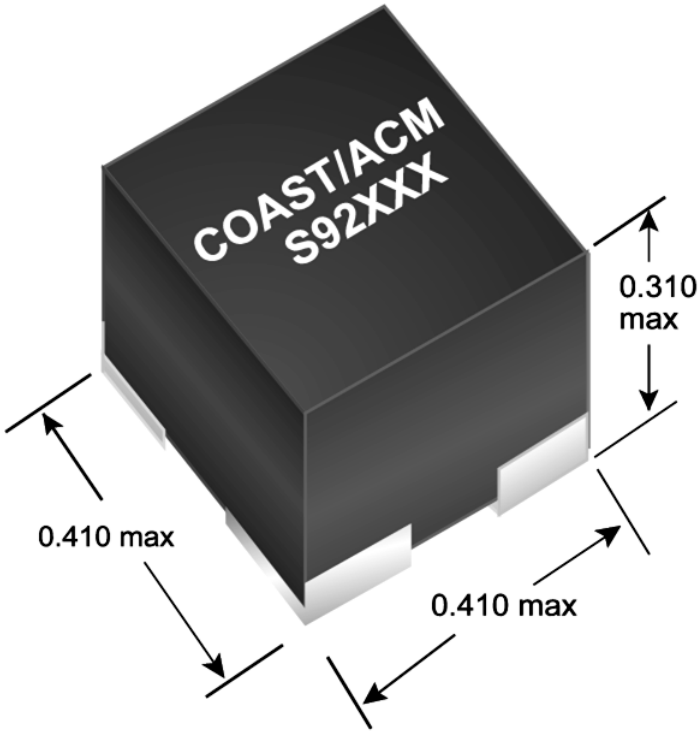
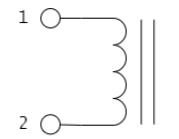
Power Inductors – S92000C Series



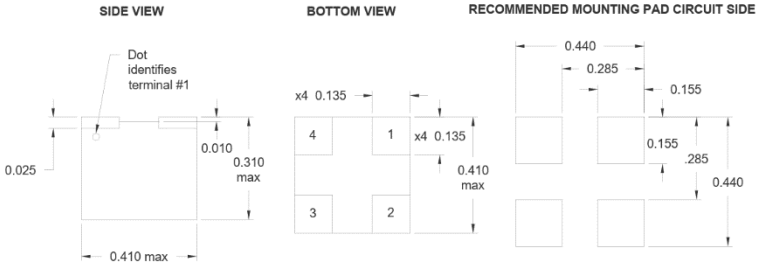


BACK-SIDE VIEW



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



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

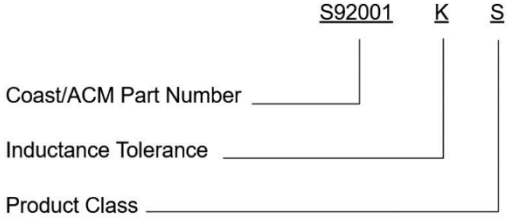
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- Termination Finish Options available (additional 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 – S92000C Series

C/ACM P/N	Inductance ±10 percent (µH)	DCR (max) ohms	Current (max) mA
S92301	15	0.035	2000
S92302	18	0.047	1900
S92303	20	0.051	1700
S92304	22	0.055	1600
S92305	25	0.064	1550
S92306	27	0.074	1500
S92307	30	0.078	1420
S92308	33	0.083	1350
S92309	39	0.088	1300
S92310	47	0.119	1100
S92311	50	0.125	1050
S92312	56	0.131	1000
S92313	68	0.188	950
S92314	75	0.203	920
S92315	82	0.218	890
S92316	100	0.284	800
S92317	120	0.312	730
S92318	150	0.429	650
S92319	180	0.478	590
S92320	200	0.501	565
S92321	220	0.524	540
S92322	250	0.630	510
S92323	270	0.737	480
S92324	300	0.780	450
S92325	330	0.824	430
S92326	350	0.977	415
S92327	390	1.13	400
S92328	470	1.25	360
S92329	500	1.3	340
S92330	560	1.35	330
S92331	680	1.88	300
S92332	750	1.97	290
S92333	820	2.07	280
S92334	1000	2.88	250
S92335	1200	3.15	230
S92336	1500	4.35	200
S92337	1800	4.74	180
S92338	2000	5.69	175
S92339	2200	6.64	170
S92340	2700	7.38	150
S92341	3000	7.72	140