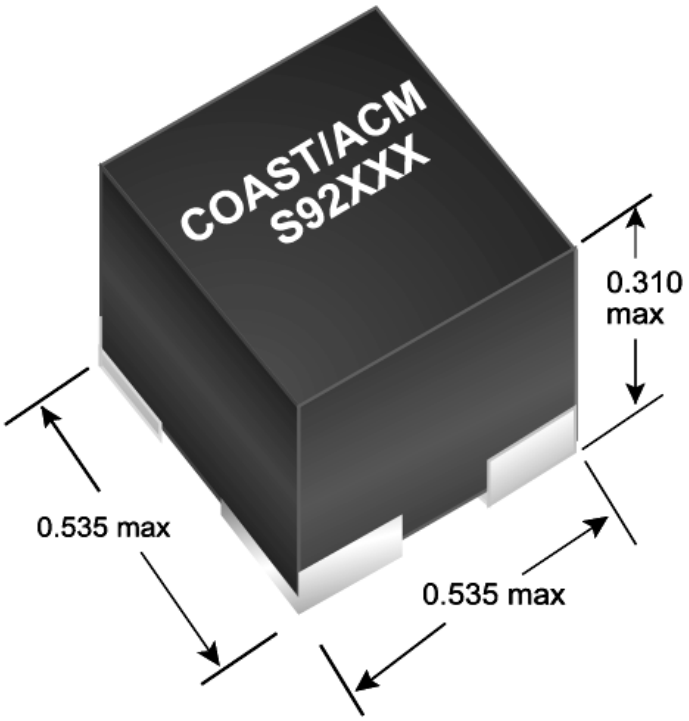
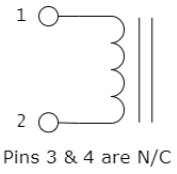
Power Inductors – S92000D Series



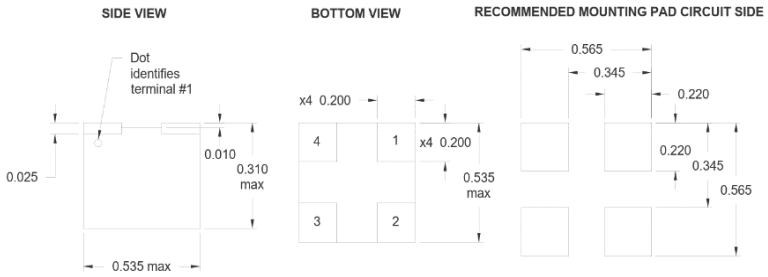


BACK-SIDE VIEW



IN	MM
0.565	14.35
0.535	13.59
0.345	8.76
0.310	7.87
0.220	5.59
0.200	5.08
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

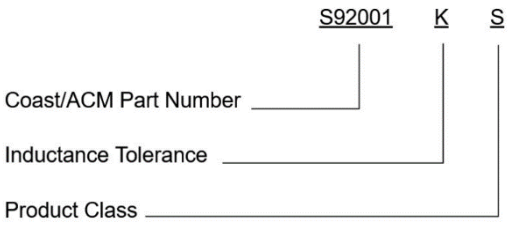
- Transfer Molded Package
- Marking: Laser or Ink
- Leadless device for minimum footprint
- Internal Welded Terminations
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- Termination Finish Optionsavailable (additional charge)
- Tighter Tolerances available (additional charge)
- Tape and Reel Packaging available (additional charge)
  - Full Reel Quantity (Small): 125 pieces
  - Full Reel Quantity (Large): 300 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 requirementsof 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 – S92000D Series

C/ACM P/N	Inductance ±10 percent (µH)	DCR (max) ohms	Current (max) mA
S92401	15	0.0221	2760
S92402	18	0.0289	2300
S92403	20	0.0349	2250
S92404	22	0.0400	2200
S92405	25	0.0422	2100
S92406	27	0.0444	2000
S92407	30	0.0466	1900
S92408	33	0.0489	1800
S92409	39	0.0676	1600
S92410	47	0.0760	1400
S92411	50	0.089	1350
S92412	56	0.102	1300
S92413	68	0.113	1200
S92414	75	0.118	1150
S92415	82	0.123	1100
S92416	100	0.174	1000
S92417	120	0.192	920
S92418	150	0.268	830
S92419	180	0.289	760
S92420	200	0.351	720
S92421	220	0.413	680
S92422	250	0.434	650
S92423	270	0.456	620
S92424	300	0.480	590
S92425	330	0.505	560
S92426	350	0.599	530
S92427	390	0.693	510
S92428	470	0.755	470
S92429	500	0.887	450
S92430	560	1.02	430
S92431	680	1.13	390
S92432	750	1.34	370
S92433	820	1.56	350
S92434	1000	1.75	320
S92435	1200	1.89	290
S92436	1500	2.70	260
S92437	1800	2.96	240
S92438	2000	3.11	220
S92439	2200	3.27	210
S92440	2700	4.59	190
S92441	3000	4.93	180