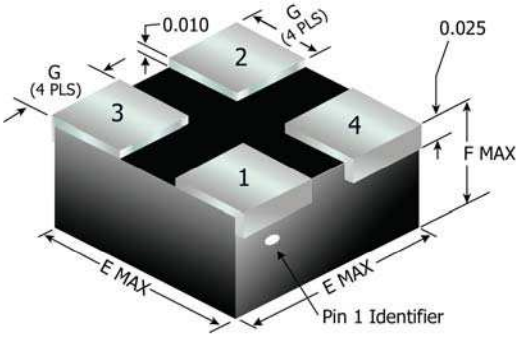
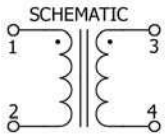
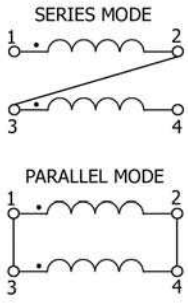
S93000 Series MIL-STD-981

Power Inductors for Space Applications

DESC DRAWING No. 93027







PHYSICAL PARAMETERS			
Size	E Max.	F Max.	G
A	0.260 (6.60)	0.230 (5.84)	0.085 ± .010 (1.90 to 2.42)
B	0.410 (10.41)	0.230 (5.84)	0.135 ± .010 (3.17 to 3.69)
C	0.410 (10.41)	0.310 (7.87)	0.135 ± .010 (3.17 to 3.69)
D	0.535 (13.59)	0.310 (7.87)	0.200 ± .010 (4.82 to 5.34)
ALL DIMENSIONS ARE IN INCHES, ( ) MM.			

FEATURES

- Leadless device for minimum footprint.
- Lead Pad Coplanarity Max: 0.002 inches; 0.05 mm.
- Low EMI Radiation.
- Low Thermal Expansion permits mounting on most substrate materials.
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package types.

SPECIFICATIONS

- Met the requirements of MIL-PRF-27 and MIL-STD-981, class **S** or class **B**.

  Class **S** parts are intended for critical flight and mission-essential ground support applications and any application that is critical to safety.

  Class **B** parts are for use in non-critical flight and non-mission-essential ground support applications.
- Operating temperature range: -55 ºC to +125 ºC.
- Temperature rise at rated D.C. current is less than 35 ºC.
- Inductance measured at 0.1 Vrms, 10 KHz, 0 DC current.
- Inductance drop 30% maximum at rated DC current.
- Terminals meet solderability per MIL-STD-202, Method 208.
- Outgassing: TML < 1%.

Part Number Ordering Information:

S93xxxB-Group A screening for class B parts per MIL-STD-981.

S93xxxS-Group A and B screening for class S parts per MIL-STD-981

DESC Part number	C/ACM P/N	SERIES			PARALLEL			Size
		Inductance mH ± 10%	Rated D.C. mA	DC Res. Max.	Inductance mH ± 10%	Rated D.C. mA	DC Res. Max.	
93027-01	S93001	0.100	300	1.60	0.025	600	0.400	A
93027-02	S93002	0.100	600	0.96	0.025	1200	0.240	B
93027-03	S93003	0.100	780	0.37	0.025	1560	0.093	C
93027-04	S93004	0.100	1350	0.21	0.025	2700	0.053	D
93027-05	S93005	0.250	200	3.11	0.062	400	0.778	A
93027-06	S93006	0.250	400	1.98	0.062	800	0.495	B
93027-07	S93007	0.250	530	0.82	0.062	1060	0.205	C
93027-08	S93008	0.250	930	0.41	0.062	1860	0.103	D
93027-09	S93009	0.500	150	6.14	0.125	300	1.535	A
93027-10	S93010	0.500	300	3.35	0.125	600	0.838	B
93027-11	S93011	0.500	380	1.62	0.125	760	0.405	C
93027-12	S93012	0.500	660	0.82	0.125	1320	0.205	D
93027-13	S93013	0.750	120	9.45	0.187	240	2.363	A
93027-14	S93014	0.750	250	5.20	0.187	500	1.300	B
93027-15	S93015	0.750	310	2.50	0.187	620	0.625	C
93027-16	S93016	0.750	540	1.25	0.187	1080	0.313	D
93027-17	S93017	1.000	95	12.85	0.250	190	3.213	A
93027-18	S93018	1.000	200	6.90	0.250	400	1.725	B
93027-19	S93019	1.000	270	3.37	0.250	540	0.843	C
93027-20	S93020	1.000	470	1.87	0.250	940	0.468	D
93027-21	S93021	2.000	75	25.60	0.500	150	6.400	A
93027-22	S93022	2.000	150	12.20	0.500	300	3.050	B
93027-23	S93023	2.000	190	6.75	0.500	380	1.690	C
93027-24	S93024	2.000	330	3.62	0.500	660	0.910	D
93027-25	S93025	3.000	60	38.40	0.750	120	9.600	A
93027-26	S93026	3.000	120	18.30	0.750	240	4.580	B
93027-27	S93027	3.000	160	10.12	0.750	320	2.530	C
93027-28	S93028	3.000	270	5.50	0.750	540	1.380	D
93027-29	S93029	5.000	45	64.00	1.250	90	16.000	A
93027-30	S93030	5.000	90	30.40	1.250	180	7.600	B
93027-31	S93031	5.000	120	16.87	1.250	240	4.220	C
93027-32	S93032	5.000	210	9.12	1.250	420	2.280	D
93027-33	S93033	7.500	30	96.00	1.875	60	24.000	A
93027-34	S93034	7.500	70	46.00	1.875	140	11.500	B
93027-35	S93035	7.500	100	25.37	1.875	200	6.350	C
93027-36	S93036	7.500	170	13.75	1.875	340	3.440	D
93027-37	S93037	10.000	20	128.00	2.500	40	32.000	A
93027-38	S93038	10.000	50	61.00	2.500	100	15.250	B
93027-39	S93039	10.000	80	33.75	2.500	160	8.440	C
93027-40	S93040	10.000	140	18.25	2.500	280	4.570	D

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