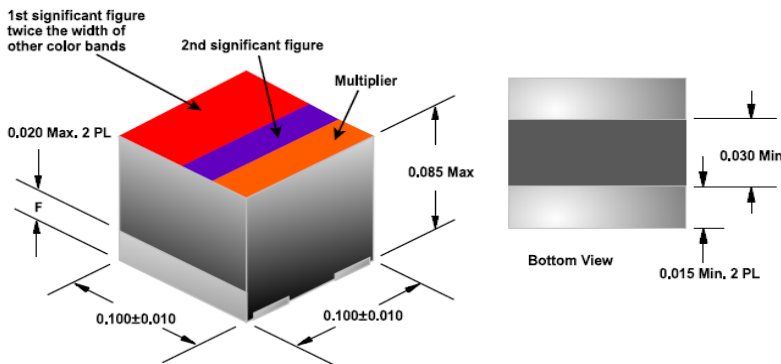


S4000 Series

Fixed Chip Inductor

MIL-STD-981, MIL-PRF-83446/4

QPL Approved



Tape & Reel (additional charge)	
Type	Reel (Qty)
No Tabs	2,000

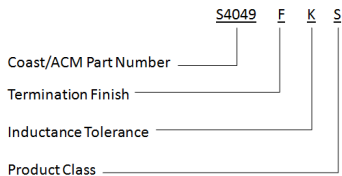
FEATURES

- Leadless device for minimum footprint
- 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

- Weight: 0.5 gram, maximum
- Operating temperature range: -55°C to 125°C
- Temperature rise (at 90°C): 35°C
- Altitude: 70,000 feet
- Dielectric withstanding voltage: Method 301 of MIL-STD-202, test voltage 200 Vrms
- Barometric Pressure: Method 105, test condition C, MIL-STD-202 (70,000 feet), test voltage 80 Vrms
- Outgassing meets NASA spec SP-R-0022A: TML < 1%
- Meets the requirements of MIL-PRF-83446 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-flight and non-mission-essential ground support applications.

Part or Identifying Number (PIN):



- F: Termination Finish
 A: Gold F: Tin-lead
 K: Inductance Tolerance
 M: ±20% K: ±10% J: ±5%
 H: ±3% G: ±2% I: ±1%
 S: Product Class (see above for details)
 S: Class S B: Class B

Dash Number	C/ACM P/N	Inductance (µH)	Q Min	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ω)	Current Max (mA)
M83446/04-01	S4001	0.12 ±10%	30	25	750	0.125	880
M83446/04-02	S4002	0.15 ±10%	25	25	650	0.175	745
M83446/04-03	S4003	0.18 ±10%	25	25	550	0.200	695
M83446/04-04	S4004	0.22 ±10%	25	25	450	0.220	665
M83446/04-05	S4005	0.27 ±10%	25	25	375	0.230	650
M83446/04-06	S4006	0.33 ±10%	25	25	300	0.235	645
M83446/04-07	S4007	0.39 ±10%	22	25	235	0.240	635
M83446/04-08	S4008	0.47 ±10%	22	25	215	0.260	610
M83446/04-09	S4009	0.56 ±10%	22	25	195	0.278	590
M83446/04-10	S4010	0.68 ±10%	22	25	175	0.520	435
M83446/04-11	S4011	0.82 ±10%	22	25	160	0.530	430
M83446/04-12	S4012	1.0 ±10%	22	25	145	0.540	425
M83446/04-13	S4013	1.2 ±10%	22	7.9	130	0.740	360
M83446/04-14	S4014	1.5 ±10%	22	7.9	115	0.840	340
M83446/04-15	S4015	1.8 ±10%	22	7.9	105	0.920	325
M83446/04-16	S4016	2.2 ±10%	22	7.9	85	1.00	310
M83446/04-17	S4017	2.7 ±10%	24	7.9	77	1.15	290
M83446/04-18	S4018	3.3 ±10%	24	7.9	70	1.40	260
M83446/04-19	S4019	3.9 ±10%	24	7.9	68	1.55	250
M83446/04-20	S4020	4.7 ±10%	24	7.9	60	1.80	230
M83446/04-21	S4021	5.6 ±10%	22	7.9	55	2.00	220
M83446/04-22	S4022	6.8 ±10%	22	7.9	50	2.20	210
M83446/04-23	S4023	8.2 ±10%	22	7.9	48	2.50	195
M83446/04-24	S4024	10.0 ±10%	24	7.9	40	3.45	165
M83446/04-25	S4025	12.0 ±10%	25	2.5	35	3.80	160
M83446/04-26	S4026	15.0 ±10%	25	2.5	30	5.60	135
M83446/04-27	S4027	18.0 ±10%	25	2.5	28	5.80	130
M83446/04-28	S4028	22.0 ±10%	25	2.5	25	6.40	125
M83446/04-29	S4029	27.0 ±10%	25	2.5	22	6.90	120
M83446/04-30	S4030	0.010 ±20%	60	50	2700	0.060	1270
M83446/04-31	S4031	0.015 ±20%	55	50	2200	0.078	1110
M83446/04-32	S4032	0.022 ±20%	50	50	1800	0.108	950
M83446/04-33	S4033	0.033 ±20%	48	50	1450	0.120	900
M83446/04-34	S4034	0.047 ±20%	42	50	1220	0.145	820
M83446/04-35	S4035	0.068 ±20%	36	50	1000	0.195	705
M83446/04-36	S4036	0.100 ±20%	32	50	830	0.230	650
M83446/04-37	S4037	0.010 ±10%	60	50	2700	0.060	1270
M83446/04-38	S4038	0.012 ±10%	57	50	2450	0.069	1190
M83446/04-39	S4039	0.015 ±10%	55	50	2200	0.078	1110
M83446/04-40	S4040	0.018 ±10%	52	50	2000	0.093	1030
M83446/04-41	S4041	0.022 ±10%	50	50	1800	0.108	950
M83446/04-42	S4042	0.027 ±10%	49	50	1625	0.114	925
M83446/04-43	S4043	0.033 ±10%	48	50	1450	0.120	900
M83446/04-44	S4044	0.039 ±10%	45	50	1335	0.133	860
M83446/04-45	S4045	0.047 ±10%	42	50	1220	0.145	820
M83446/04-46	S4046	0.056 ±10%	39	50	1110	0.170	760
M83446/04-47	S4047	0.068 ±10%	36	50	1000	0.195	705
M83446/04-48	S4048	0.082 ±10%	34	50	915	0.212	675
M83446/04-49	S4049	0.100 ±10%	32	50	830	0.230	650



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