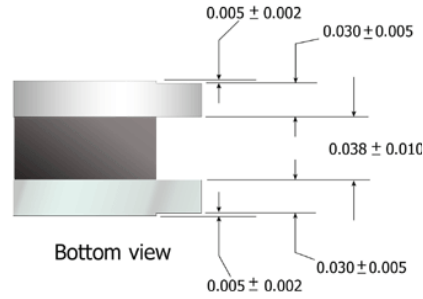
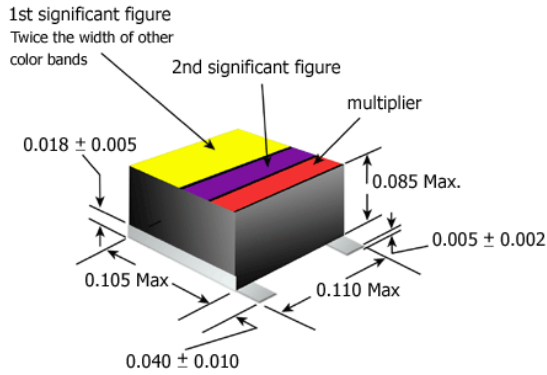


# S5000 Series

# MIL-STD-981, MIL-PRF-83446/5

## Fixed Chip Inductor

QPL Approved



Tape & Reel (additional charge)	
Type	Reel (Qty)
Tabs	1,800
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 500 Vrms
- Barometric Pressure: Method 105, test condition C, MIL-STD-202 (70,000 feet), test voltage 200 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):  
S5 XXX F K S

S5XXX: Coast/ACM Part Number

F: Termination Finish

A: Gold F: Tin-lead

K: Inductance Tolerance

M: ±20% K: ±10% J: ±5%

H: ±3% G: ±2% I: ±1%

S: CLASS (see above for details)

S: Class S B: Class B

With Tabs		Without Tabs		Inductance ±10% (µH)	Q Min	Q Typ	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ω)	Current Max (mA)
Dash Number	C/ACM P/N	Dash Number	C/ACM P/N							
M83446/05-01	S5001	M83446/05-38	S5038	0.010	50	55	150	2000	0.025	750
M83446/05-02	S5002	M83446/05-39	S5039	0.012	50	55	150	2000	0.025	750
M83446/05-03	S5003	M83446/05-40	S5040	0.015	50	55	150	1800	0.040	750
M83446/05-04	S5004	M83446/05-41	S5041	0.018	50	55	150	1500	0.040	750
M83446/05-05	S5005	M83446/05-42	S5042	0.022	45	50	100	1400	0.040	750
M83446/05-06	S5006	M83446/05-43	S5043	0.027	45	50	100	1200	0.040	750
M83446/05-07	S5007	M83446/05-44	S5044	0.033	47	55	100	1200	0.050	640
M83446/05-08	S5008	M83446/05-45	S5045	0.039	47	55	100	1200	0.070	600
M83446/05-09	S5009	M83446/05-46	S5046	0.047	47	55	100	1000	0.080	550
M83446/05-10	S5010	M83446/05-47	S5047	0.056	47	55	100	900	0.090	520
M83446/05-11	S5011	M83446/05-48	S5048	0.068	47	55	100	900	0.10	480
M83446/05-12	S5012	M83446/05-49	S5049	0.082	47	55	100	750	0.11	470
M83446/05-13	S5013	M83446/05-50	S5050	0.100	47	55	50	700	0.11	470
M83446/05-14	S5014	M83446/05-51	S5051	0.120	47	55	50	600	0.11	470
M83446/05-15	S5015	M83446/05-52	S5052	0.150	47	55	50	500	0.12	450
M83446/05-16	S5016	M83446/05-53	S5053	0.180	51	60	50	450	0.14	430
M83446/05-17	S5017	M83446/05-54	S5054	0.220	51	60	50	420	0.20	350
M83446/05-18	S5018	M83446/05-55	S5055	0.270	51	60	50	400	0.25	310
M83446/05-19	S5019	M83446/05-56	S5056	0.330	51	60	50	320	0.30	280
M83446/05-20	S5020	M83446/05-57	S5057	0.390	47	55	50	270	0.45	240
M83446/05-21	S5021	M83446/05-58	S5058	0.470	47	55	25	250	0.50	230
M83446/05-22	S5022	M83446/05-59	S5059	0.560	52	60	25	200	0.55	220
M83446/05-23	S5023	M83446/05-60	S5060	0.680	52	60	25	180	0.58	210
M83446/05-24	S5024	M83446/05-61	S5061	0.820	52	60	25	150	0.60	200
M83446/05-25	S5025	M83446/05-62	S5062	1.00	52	60	25	120	0.65	190
M83446/05-26	S5026	M83446/05-63	S5063	1.20	42	50	7.9	110	0.75	180
M83446/05-27	S5027	M83446/05-64	S5064	1.50	42	50	7.9	100	1.1	160
M83446/05-28	S5028	M83446/05-65	S5065	1.80	48	55	7.9	95	1.2	150
M83446/05-29	S5029	M83446/05-66	S5066	2.20	48	55	7.9	90	1.3	140
M83446/05-30	S5030	M83446/05-67	S5067	2.70	48	55	7.9	65	1.5	130
M83446/05-31	S5031	M83446/05-68	S5068	3.30	48	55	7.9	55	1.8	120
M83446/05-32	S5032	M83446/05-69	S5069	3.90	48	55	7.9	45	2.0	110
M83446/05-33	S5033	M83446/05-70	S5070	4.70	48	55	7.9	43	2.3	100
M83446/05-34	S5034	M83446/05-71	S5071	5.60	48	55	7.9	40	2.5	100
M83446/05-35	S5035	M83446/05-72	S5072	6.80	46	53	7.9	38	2.6	98
M83446/05-36	S5036	M83446/05-73	S5073	8.20	46	53	7.9	35	2.8	95
M83446/05-37	S5037	M83446/05-74	S5074	10.0	46	53	7.9	33	3.3	87



Coast / Advanced Chip Magnetics  
4225 Spencer Street, Torrance CA 90503 · Phone 310-370-8188 · Fax 310-370-8388  
Web: www.coastacm.com · Email: sales@coastacm.com