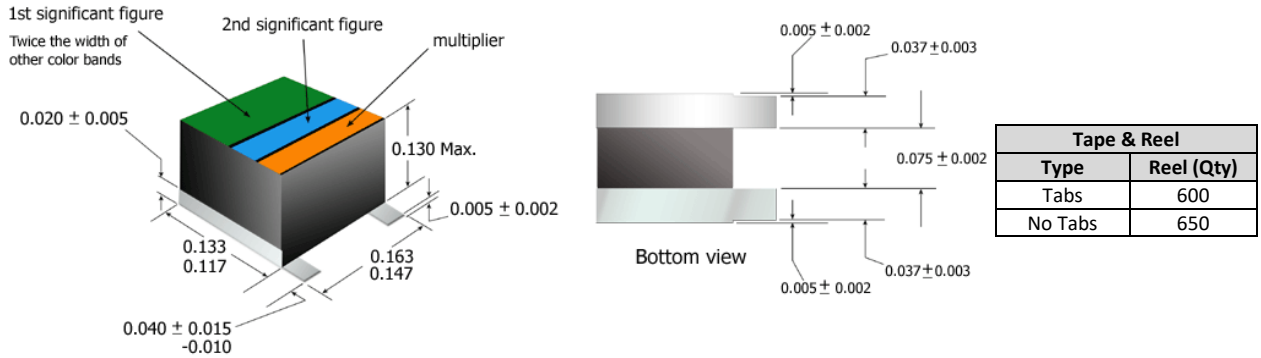


# 10000 Series

# MIL-PRF-27

## Fixed Chip Inductor



### FEATURES

- Leadless device for minimum footprint
- Low EMI Radiation
- Low Thermal Expansion permits mounting on most substrate materials
- Military QPL Approved
- Custom Designs: Other electrical configurations and performance characteristics are available in various sizes and package types

### SPECIFICATIONS

- Built to meet MIL-PRF-83446
- Operating temperature range: -55°C to 125°C
- Temperature rise (at 90°C): 35°C
- Altitude: 70,000 feet
- Weight: 0.5 grams maximum
- Terminals meet solderability per MIL-STD-202, Method 208
- Termination finish:
  - A: Gold
  - F: Tin-lead
- Space Application: Available to MIL-STD-981
- Outgassing meets NASA spec SP-R-0022A: TML < 1%

With Tabs		Without Tabs		Inductance ±10% (μH)	Q Min	Q Typ	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ω)	Current Max (mA)
Military Dash Number	C/ACM P/N	Military Dash Number	C/ACM P/N							
M83446/10-01	10001	M83446/10-62	10062	0.010	60	65	150	2000	0.04	1000
M83446/10-02	10002	M83446/10-63	10063	0.012	70	82	150	1800	0.04	1000
M83446/10-03	10003	M83446/10-64	10064	0.015	75	87	150	1500	0.04	1000
M83446/10-04	10004	M83446/10-65	10065	0.018	75	87	150	1500	0.04	1000
M83446/10-05	10005	M83446/10-66	10066	0.022	60	65	100	1300	0.05	1000
M83446/10-06	10006	M83446/10-67	10067	0.027	60	70	100	1300	0.05	1000
M83446/10-07	10007	M83446/10-68	10068	0.033	60	70	100	1000	0.05	1000
M83446/10-08	10008	M83446/10-69	10069	0.039	60	70	100	1000	0.06	900
M83446/10-09	10009	M83446/10-70	10070	0.047	65	75	100	800	0.06	900
M83446/10-10	10010	M83446/10-71	10071	0.056	65	75	100	760	0.06	900
M83446/10-11	10011	M83446/10-72	10072	0.068	65	75	100	700	0.07	840
M83446/10-12	10012	M83446/10-73	10073	0.082	65	75	100	650	0.07	840
M83446/10-13	10013	M83446/10-74	10074	0.100	65	77	50	570	0.07	840
M83446/10-14	10014	M83446/10-75	10075	0.120	65	77	50	520	0.07	840
M83446/10-15	10015	M83446/10-76	10076	0.150	75	87	50	400	0.08	790
M83446/10-16	10016	M83446/10-77	10077	0.180	75	87	50	360	0.08	790
M83446/10-17	10017	M83446/10-78	10078	0.220	70	80	50	320	0.08	790
M83446/10-18	10018	M83446/10-79	10079	0.270	70	80	50	270	0.10	700
M83446/10-19	10019	M83446/10-80	10080	0.330	70	80	50	240	0.10	700
M83446/10-20	10020	M83446/10-81	10081	0.390	70	80	50	220	0.10	700
M83446/10-21	10021	M83446/10-82	10082	0.470	70	80	25	190	0.14	590
M83446/10-22	10022	M83446/10-83	10083	0.560	70	82	25	170	0.19	510
M83446/10-23	10023	M83446/10-84	10084	0.680	70	83	25	160	0.26	430
M83446/10-24	10024	M83446/10-85	10085	0.820	75	84	25	150	0.30	400
M83446/10-25	10025	M83446/10-86	10086	1.00	75	87	25	130	0.34	380
M83446/10-26	10026	M83446/10-87	10087	1.20	65	73	7.9	120	0.45	330
M83446/10-27	10027	M83446/10-88	10088	1.50	65	73	7.9	110	0.57	290
M83446/10-28	10028	M83446/10-89	10089	1.80	65	73	7.9	100	0.72	260
M83446/10-29	10029	M83446/10-90	10090	2.20	65	73	7.9	80	0.9	230
M83446/10-30	10030	M83446/10-91	10091	2.70	65	73	7.9	60	1.1	210
M83446/10-31	10031	M83446/10-92	10092	3.30	60	70	7.9	50	1.2	200
M83446/10-32	10032	M83446/10-93	10093	3.90	60	70	7.9	45	1.4	180
M83446/10-33	10033	M83446/10-94	10094	4.70	60	70	7.9	42	1.6	170
M83446/10-34	10034	M83446/10-95	10095	5.60	65	75	7.9	40	1.8	160
M83446/10-35	10035	M83446/10-96	10096	6.80	65	75	7.9	37	2.4	140
M83446/10-36	10036	M83446/10-97	10097	8.20	65	75	7.9	34	3.0	130
M83446/10-37	10037	M83446/10-98	10098	10.0	65	75	7.9	29	3.5	120
M83446/10-38	10038	M83446/10-99	10099	12.0	60	70	2.5	27	3.6	118
M83446/10-39	10039	M83446/10-100	10100	15.0	60	70	2.5	22	3.7	115
M83446/10-40	10040	M83446/10-101	10101	18.0	60	72	2.5	17	3.8	114
M83446/10-41	10041	M83446/10-102	10102	22.0	60	72	2.5	16	3.9	113
M83446/10-42	10042	M83446/10-103	10103	27.0	65	75	2.5	15	4.0	110
M83446/10-43	10043	M83446/10-104	10104	33.0	65	75	2.5	14	5.0	100
M83446/10-44	10044	M83446/10-105	10105	39.0	65	75	2.5	13	7.0	84
M83446/10-45	10045	M83446/10-106	10106	47.0	70	78	2.5	12	8.0	79
M83446/10-46	10046	M83446/10-107	10107	56.0	70	78	2.5	11	10.0	70
M83446/10-47	10047	M83446/10-108	10108	68.0	65	75	2.5	10	11.0	67
M83446/10-48	10048	M83446/10-109	10109	82.0	60	72	2.5	9	12.0	64
M83446/10-49	10049	M83446/10-110	10110	100.0	60	70	2.5	8	13.0	62
M83446/10-50	10050	M83446/10-111	10111	120.0	40	48	0.79	7	14.0	59
M83446/10-51	10051	M83446/10-112	10112	150.0	40	48	0.79	6	16.0	56
M83446/10-52	10052	M83446/10-113	10113	180.0	40	48	0.79	5	18.0	52
M83446/10-53	10053	M83446/10-114	10114	220.0	40	48	0.79	4	24.0	45
M83446/10-54	10054	M83446/10-115	10115	270.0	40	48	0.79	3.3	25.0	44
M83446/10-55	10055	M83446/10-116	10116	330.0	40	48	0.79	3.1	29.0	41
M83446/10-56	10056	M83446/10-117	10117	390.0	40	48	0.79	2.9	32.0	39
M83446/10-57	10057	M83446/10-118	10118	470.0	35	45	0.79	2.4	35.0	37
M83446/10-58	10058	M83446/10-119	10119	560.0	35	45	0.79	2.1	45.0	33
M83446/10-59	10059	M83446/10-120	10120	680.0	35	40	0.79	1.9	55.0	30
M83446/10-60	10060	M83446/10-121	10121	820.0	30	36	0.79	1.8	70.0	26
M83446/10-61	10061	M83446/10-122	10122	1000.0	30	36	0.79	1.7	80.0	25



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