

MILITARY PRODUCTS

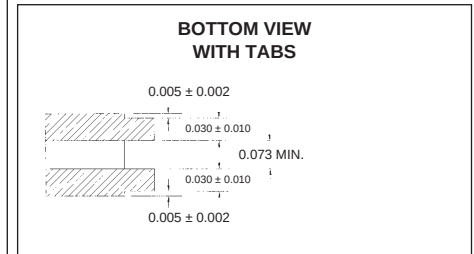
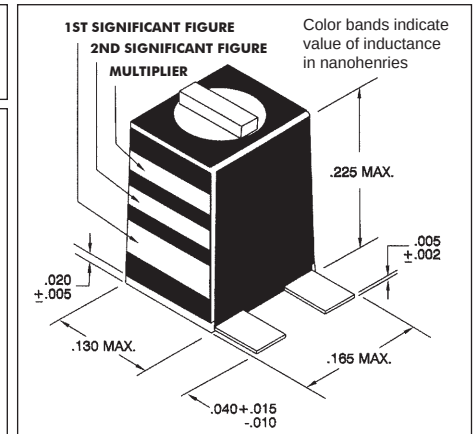
Variable Chip Inductors M83446/9 - Series 31,000 Qualified Product Listed MIL-PRF-83446

IN	MM
0.225	5.715
0.165	4.191
0.130	3.302
0.112	2.845
0.073	1.854
0.040	1.016
0.030	0.762
0.020	0.508
0.015	0.381
0.010	0.254
0.008	0.203
0.005	0.127
0.003	0.076
0.002	0.051

CONVERSION

WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		ACTUAL SIZE							
				TOP VIEW					SIDE VIEW		
				Min			Q				
M83446/9 Dash No.	VE P/N	M83446/9 Dash No.	VE P/N	Nom. "L" uH	Inductance Range uH	Test Freq MHz	Min @ "L" Nom.	SRF MHz Min	DCR Ohms Max	Current ma Max	
-01	31000	-48	31000 NT	0.018	0.015-	0.021	150	50	1200	0.03	750
-02	31001	-49	31001 NT	0.022	0.018-	0.026	150	55	1100	0.03	750
-03	31002	-50	31002 NT	0.027	0.022-	0.032	150	55	1000	0.03	750
-04	31003	-51	31003 NT	0.033	0.027-	0.039	150	55	900	0.04	750
-05	31004	-52	31004 NT	0.039	0.033-	0.047	150	55	750	0.04	750
-06	31005	-53	31005 NT	0.047	0.039-	0.056	100	55	660	0.04	750
-07	31006	-54	31006 NT	0.056	0.047-	0.068	100	55	610	0.05	700
-08	31007	-55	31007 NT	0.068	0.055-	0.083	100	55	550	0.05	700
-09	31008	-56	31008 NT	0.082	0.067-	0.099	100	55	520	0.06	645
-10	31009	-57	31009 NT	0.10	0.080-	0.120	100	55	490	0.06	645
-11	31010	-58	31010 NT	0.12	0.096-	0.144	50	50	460	0.07	600
-12	31011	-59	31011 NT	0.15	0.12-	0.18	50	50	430	0.08	560
-13	31012	-60	31012 NT	0.18	0.14-	0.22	50	50	385	0.09	525
-14	31013	-61	31013 NT	0.22	0.17-	0.27	50	45	330	0.10	500
-15	31014	-62	31014 NT	0.27	0.21-	0.33	50	45	300	0.15	400
-16	31015	-63	31015 NT	0.33	0.26-	0.40	50	45	275	0.19	360
-17	31016	-64	31016 NT	0.39	0.32-	0.47	50	40	240	0.25	300
-18	31017	-65	31017 NT	0.47	0.37-	0.57	25	40	210	0.30	280
-19	31018	-66	31018 NT	0.56	0.46-	0.68	25	40	190	0.40	250
-20	31019	-67	31019 NT	0.68	0.54-	0.82	25	40	165	0.60	200
-21	31020	-68	31020 NT	0.82	0.68-	1.00	25	40	155	0.70	180
-22	31021	-69	31021 NT	1.0	0.75-	1.25	25	40	140	0.90	160
-23	31022	-70	31022 NT	1.2	0.90-	1.50	25	35	125	1.10	150
-24	31023	-71	31023 NT	1.5	1.13-	1.87	7.9	30	115	1.30	135
-25	31024	-72	31024 NT	1.8	1.35-	2.25	7.9	30	105	1.70	120
-26	31025	-73	31025 NT	2.2	1.65-	2.75	7.9	30	100	2.3	100
-27	31026	-74	31026 NT	2.7	2.02-	3.37	7.9	25	85	3.0	90
-28	31027	-75	31027 NT	3.3	2.48-	4.12	7.9	25	75	3.9	80
-29	31028	-76	31028 NT	3.9	2.92-	4.87	7.9	25	47	3.9	80
-30	31029	-77	31029 NT	4.7	3.52-	5.88	7.9	25	30	3.9	80
-31	31030	-78	31030 NT	5.6	4.2-	7.0	7.9	22	24	4.0	75
-32	31031	-79	31031 NT	6.8	5.1-	8.5	7.9	22	23	4.0	75
-33	31032	-80	31032 NT	8.2	6.1-	10.2	7.9	22	22	4.5	72
-34	31033	-81	31033 NT	10	7.5-	12.5	7.9	22	21	4.5	72
-35	31034	-82	31034 NT	12	9.0-	15.0	7.9	22	17	5.0	70
-36	31035	-83	31035 NT	15	11.2-	18.7	2.5	22	15	6.0	65
-37	31036	-84	31036 NT	18	13.5-	22.5	2.5	22	14	8.0	55
-38	31037	-85	31037 NT	22	16.5-	27.5	2.5	22	13	10.0	50
-39	31038	-86	31038 NT	27	20.2-	31.3	2.5	22	11	11.0	45
-40	31039	-87	31039 NT	33	24.7-	41.2	2.5	22	10	13.0	43
-41	31040	-88	31040 NT	39	29.2-	48.8	2.5	22	9	14.0	42
-42	31041	-89	31041 NT	47	35.2-	58.8	2.5	22	8	15.0	40
-43	31042	-90	31042 NT	56	42.0-	70.0	2.5	22	7	19.0	36
-44	31043	-91	31043 NT	68	51.0-	85.0	2.5	22	6	24.0	32
-45	31044	-92	31044 NT	82	62.0-	102.0	2.5	25	5	31.0	28
-46	31045	-93	31045 NT	100	75.0-	125.0	2.5	25	4	40.0	25
-47	31046	-94	31046 NT	120	90.0-	150.0	2.5	25	3	50.0	22

Information on Test Fixtures, Test Equipment & Q Curves can be found on the Technical Information section of website



Operating Temperature:
-55 °C to +125 °C

Standard Terminations:
Phosphor bronze with tin-lead coating, welded internal connections.

Optional Terminations:
Gold plated terminations on request, add suffix "G" to Vanguard part number when ordering.

TCL:
+0.018 uH to 12 uH= +140 PPM/°C;
15 uH to 120 uH= +300 PPM/°C

Tuning Tools:
Available on request