SPACE APPLICATION PRODUCTS

Chip Inductors

M83446/6

Qualified Product Listed on MIL-C-83446

Mil-Std-981, Class "S"

IN	MM
0.084	2.134
0.074	1.880
0.050	1.270
0.040	1.016
0.026	0.660
0.022	0.559
0.020	0.508
0.006	0.152
0.005	0.127
0.004	0.101
0.003	0.076
0.002	0.050

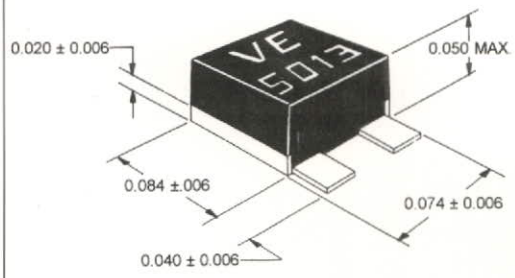
CONVERSION

WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		ACTUAL SIZE TOP VIEW / SIDE VIEW						
M83446/6 Dash No.	VE P/N	M83446/6 Dash No.	VE P/N	Inductance uH	Min Q	Typ Q	Test Freq MHz	SRF MHz Min	DCR Ohms Max	Current mA Max
-49	S50001	-88	S50001 NT	0.005	32	40	200	1900	0.10	750
-50	S50002	-89	S50002 NT	0.008	32	40	200	1800	0.10	750
-51	S50003	-90	S50003 NT	0.010	32	40	150	1700	0.10	750
-52	S50004	-91	S50004 NT	0.012	32	40	150	1500	0.10	750
-53	S50005	-92	S50005 NT	0.015	29	37	150	1300	0.10	750
-54	S50006	-93	S50006 NT	0.018	29	37	150	1100	0.10	750
-55	S50007	-94	S50007 NT	0.022	35	43	100	900	0.10	750
-56	S50008	-95	S50008 NT	0.027	34	42	100	900	0.10	750
-57	S50009	-96	S50009 NT	0.033	32	41	100	800	0.10	600
-58	S50010	-97	S50010 NT	0.039	32	41	100	750	0.10	550
-59	S50011	-98	S50011 NT	0.047	32	41	100	750	0.10	500
-60	S50012	-99	S50012 NT	0.056	32	41	100	700	0.10	450
-61	S50013	-100	S50013 NT	0.068	32	41	100	700	0.12	400
-62	S50014	-101	S50014 NT	0.082	32	40	100	700	0.13	350
-63	S50015	-102	S50015 NT	0.10	32	40	50	600	0.14	350
-64	S50016	-103	S50016 NT	0.12	32	40	50	500	0.17	350
-65	S50017	-104	S50017 NT	0.15	32	40	50	500	0.18	350
-66	S50018	-105	S50018 NT	0.18	32	40	50	450	0.25	300
-67	S50019	-106	S50019 NT	0.22	32	40	50	400	0.30	300
-68	S50020	-107	S50020 NT	0.27	30	39	50	330	0.40	300
-69	S50021	-108	S50021 NT	0.33	30	39	50	270	0.50	300
-70	S50022	-109	S50022 NT	0.39	24	31	50	250	0.90	250
-71	S50023	-110	S50023 NT	0.47	24	31	25	200	0.90	250
-72	S50024	-111	S50024 NT	0.56	24	31	25	180	1.10	250
-73	S50025	-112	S50025 NT	0.68	24	31	25	150	1.20	250
-74	S50026	-113	S50026 NT	0.82	24	31	25	130	1.40	250
-75	S50027	-114	S50027 NT	1.0	24	31	25	110	1.40	250
-76	S50028	-115	S50028 NT	1.2	21	28	7.9	110	1.50	200
-77	S50029	-116	S50029 NT	1.5	21	28	7.9	110	1.50	200
-78	S50030	-117	S50030 NT	1.8	21	28	7.9	100	1.60	200
-79	S50031	-118	S50031 NT	2.2	21	28	7.9	90	1.60	150

Note: Devices measuring 2.7 uH through 10.0 uH (not shown on this chart) are available as Mil-Std-981, Class "S" by issuing a waiver to the wire size requirement.

Test Fixtures and Equipment

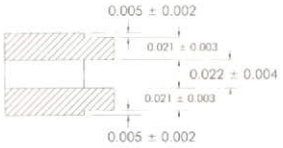
To assure accurate measurement of Inductance and Q, use test fixtures and equipment specified in Technical Information section of this catalog.



MARKING EXAMPLES:

5008 for Part Number S50008
5013 for Part Number S50013

BOTTOM VIEW
WITH TABS



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.

Inductance Tolerance:
±20% for part numbers S50001 to S50002 (includes NT p/ns)

±10% for part numbers S50003 to S50031 (includes NT p/ns)

Tighter tolerances and other inductance values up to 10 uH on request.

Part Numbers S50001 & S50001 NT thru S50031 & S50031 NT:
TCL = +125 PPM/°C Max.

S 50,000 SERIES

VANGUARD ELECTRONICS
(310) 323-4100