



50000 SERIES

QPL: M83446/5



MIL-PRF-83446

ELECTRICAL SPECIFICATIONS

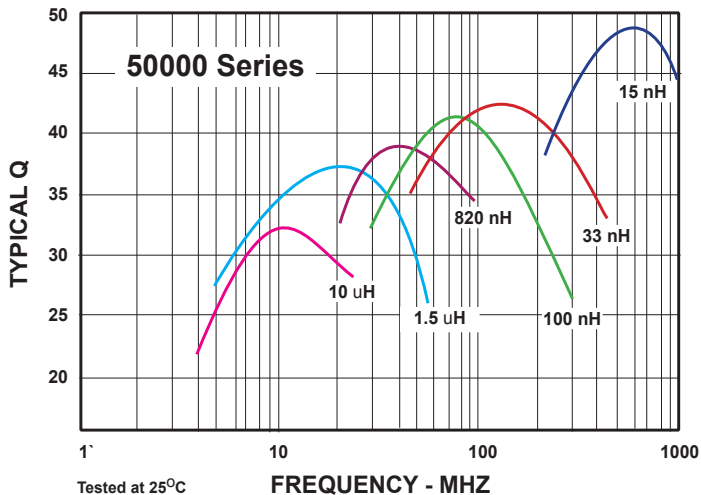
- **Inductance Range:** 0.005 uH to 10 uH
- **Inductance Tolerance:** *Standard is $\pm 10\%$, tighter tolerance available upon request *+ 20% for part number 50001 to 50002
- **Resistance to Solder Heat:** 260°C for 10 seconds
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -55°C to 125°C
- **Temperature Rise:** 30°C Max at 90°C Ambient
- **Temperature Coefficient of Inductance**
 - P/N 50001 thru 50039: +125 PPM/°C Max

FEATURES

- **Transfer Molded Package**
- **Internal Welded Terminations**
- **Terminations:** Tin-lead
- **Optional Terminations on Request:** Gold plated terminations (add suffix "G")
- **Tape and Reel Packaging Available**
- **Recommended Mounting Technique**
 - Reflow or Vapor Phase Soldering
 - Conductive Epoxy
 - Wire bonding (gold lead only)

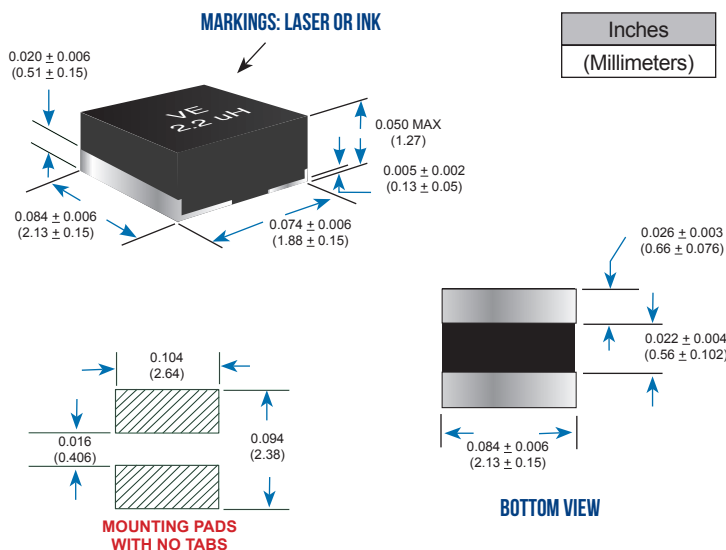
APPLICATIONS

- **Additional Application Grades Available:**
 - Space Grade (MIL-STD-981)
 - High Temperature Grade (+200°C)
 - Commercial Grade or Equivalent

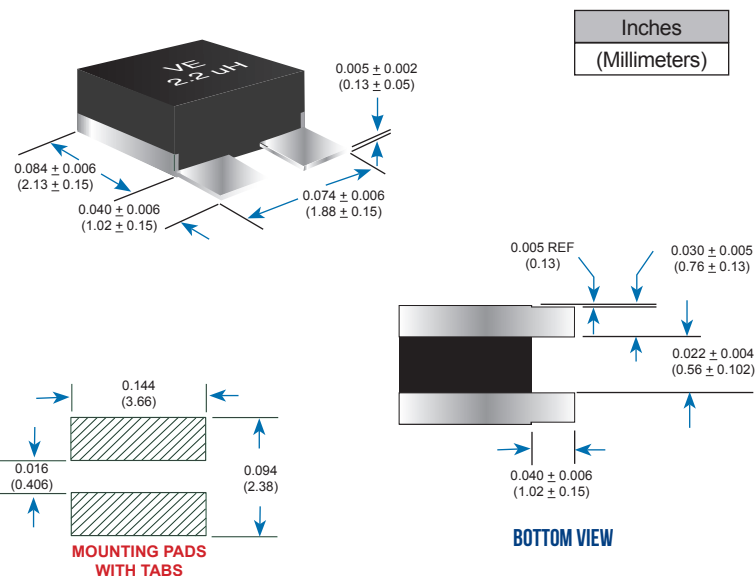


Inductance Range (uH)	Typical Q	Current Rating (mA)
0.005 to 10	28 to 40	100 to 750

NO TABS



WITH TABS





DATA TABLE

WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		Inductance (uH)	Q (Min)	Q (Typ)	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
M83446/6 Dash No.	VE P/N	M83446/6 Dash No.	VE P/N							
-49	50001	-88	50001 NT	0.005	32	40	200	1900	0.10	750
-50	50002	-89	50002 NT	0.008	32	40	200	1800	0.10	750
-51	50003	-90	50003 NT	0.010	32	40	150	1700	0.10	750
-52	50004	-91	50004 NT	0.012	32	40	150	1500	0.10	750
-53	50005	-92	50005 NT	0.015	29	37	150	1300	0.10	750
-54	50006	-93	50006 NT	0.018	29	37	150	1100	0.10	750
-55	50007	-94	50007 NT	0.022	35	43	100	900	0.10	750
-56	50008	-95	50008 NT	0.027	34	42	100	900	0.10	750
-57	50009	-96	50009 NT	0.033	32	41	100	800	0.10	600
-58	50010	-97	50010 NT	0.039	32	41	100	750	0.10	550
-59	50011	-98	50011 NT	0.047	32	41	100	750	0.10	500
-60	50012	-99	50012 NT	0.056	32	41	100	700	0.10	450
-61	50013	-100	50013 NT	0.068	32	41	100	700	0.12	400
-62	50014	-101	50014 NT	0.082	32	40	100	700	0.13	350
-63	50015	-102	50015 NT	0.10	32	40	50	600	0.14	350
-64	50016	-103	50016 NT	0.12	32	40	50	500	0.17	350
-65	50017	-104	50017 NT	0.15	32	40	50	500	0.18	350
-66	50018	-105	50018 NT	0.18	32	40	50	450	0.25	300
-67	50019	-106	50019 NT	0.22	32	40	50	400	0.30	300
-68	50020	-107	50020 NT	0.27	30	39	50	330	0.40	300
-69	50021	-108	50021 NT	0.33	30	39	50	270	0.50	300
-70	50022	-109	50022 NT	0.39	24	31	50	250	0.90	250
-71	50023	-110	50023 NT	0.47	24	31	25	200	0.90	250
-72	50024	-111	50024 NT	0.56	24	31	25	180	1.10	250
-73	50025	-112	50025 NT	0.68	24	31	25	150	1.20	250
-74	50026	-113	50026 NT	0.82	24	31	25	130	1.40	250
-75	50027	-114	50027 NT	1.0	24	31	25	110	1.40	250
-76	50028	-115	50028 NT	1.2	21	28	7.9	110	1.50	200
-77	50029	-116	50029 NT	1.5	21	28	7.9	110	1.50	200
-78	50030	-117	50030 NT	1.8	21	28	7.9	100	1.60	200
-79	50031	-118	50031 NT	2.2	21	28	7.9	90	1.60	150
-80	50032	-119	50032 NT	2.7	21	28	7.9	80	1.60	150
-81	50033	-120	50033 NT	3.3	21	28	7.9	75	1.60	150
-82	50034	-121	50034 NT	3.9	21	28	7.9	70	2.90	100
-83	50035	-122	50035 NT	4.7	21	28	7.9	63	2.90	100
-84	50036	-123	50036 NT	5.6	21	28	7.9	60	3.00	100
-85	50037	-124	50037 NT	6.8	21	28	7.9	50	3.75	100
-86	50038	-125	50038 NT	8.2	21	28	7.9	40	4.50	100
-87	50039	-126	50039 NT	10.0	21	28	7.9	30	5.60	100

Test Fixtures and Equipment:

To assure accurate measurement of Inductance and Q, use test fixtures and equipment specified in Technical Information on VE1.com.

CUSTOM DESIGNS & MODIFICATIONS:

Other electrical configurations and performance characteristics are available in various sizes and package types

50000 SERIES

