30000 SERIES

QPL: M83446/5

AS9100 C CERTIFIED
ISO 9001 CERTIFIED
ITAR COMPLIANT

MIL-PRF-83446

Inductance Range (uH)	Typical Q	Current Rating (mA)
0.010 to 100	35 to 60	28 to 750

ELECTRICAL SPECIFICATIONS

- **Inductance Range:** 0.010 uH to 100 uH
- **Inductance Tolerance:** Standard is ±10%, tighter tolerance available upon request
- **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 30000 thru 30011: +125 PPM/oC Max.
  - P/N 30012 thru 30048: +80 PPM/oC Max.

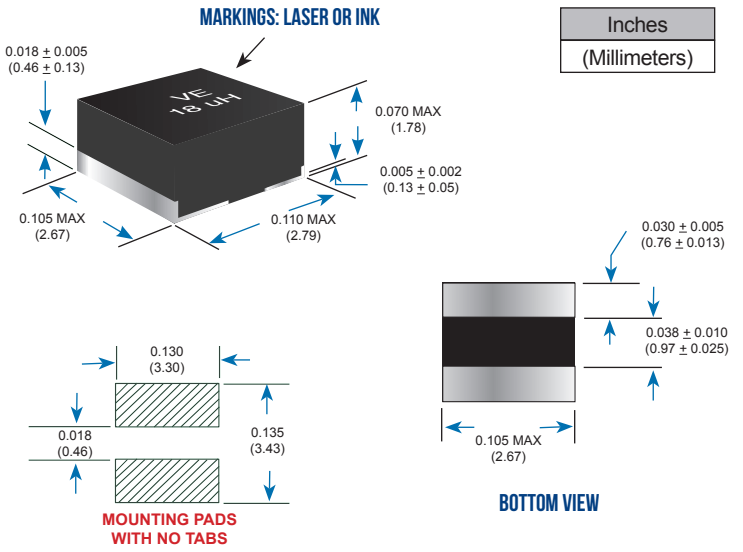
FEATURES

- **Transfer Molded Package**
- **Internal Welded Terminations**
- **Terminations:** Tin-lead over phosphorus bronze
- **Optional Termination 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)

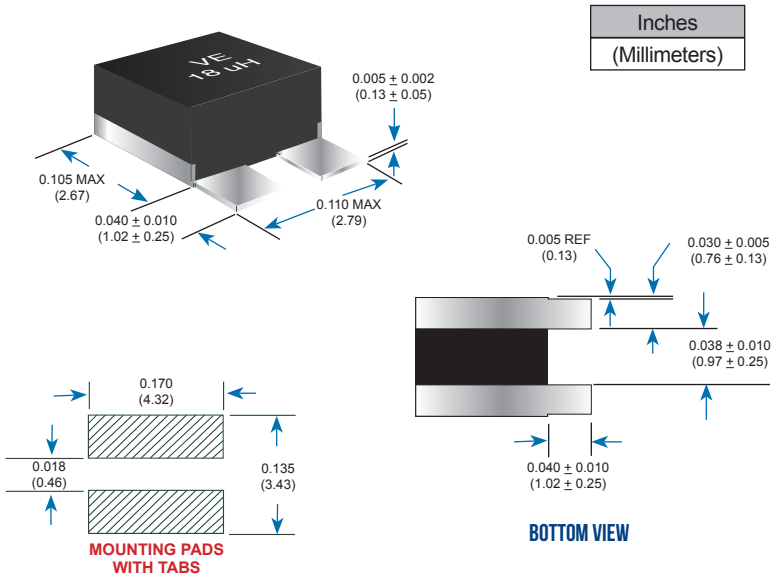
APPLICATIONS

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

NO TABS



WITH TABS



30000 SERIES

REV C

DATA TABLE

WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS								
M83446/8 Dash No.	VE P/N	M83446/8 Dash No.	VE P/N	Inductance (uH)	Q (Min)	Q (Typ)	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
-01	30000	-50	30000 NT	0.010	50	55	150	2000	0.025	750
-02	30001	-51	30001 NT	0.012	50	55	150	2000	0.025	750
-03	30002	-52	30002 NT	0.015	50	55	150	1800	0.04	750
-04	30003	-53	30003 NT	0.018	50	55	150	1500	0.04	750
-05	30004	-54	30004 NT	0.022	45	50	100	1400	0.04	750
-06	30005	-55	30005 NT	0.027	45	50	100	1200	0.04	750
-07	30006	-56	30006 NT	0.033	47	55	100	1100	0.05	640
-08	30007	-57	30007 NT	0.039	47	55	100	1000	0.07	600
-09	30008	-58	30008 NT	0.047	47	55	100	900	0.08	550
-10	30009	-59	30009 NT	0.056	47	55	100	850	0.09	520
-11	30010	-60	30010 NT	0.068	47	55	100	840	0.10	480
-12	30011	-61	30011 NT	0.082	47	55	100	750	0.11	470
-13	30012	-62	30012 NT	0.10	47	55	50	580	0.11	470
-14	30013	-63	30013 NT	0.12	47	55	50	240	0.11	470
-15	30014	-64	30014 NT	0.15	47	55	50	230	0.12	450
-16	30015	-65	30015 NT	0.18	51	60	50	230	0.14	430
-17	30016	-66	30016 NT	0.22	51	60	50	230	0.20	350
-18	30017	-67	30017 NT	0.27	51	60	50	230	0.25	310
-19	30018	-68	30018 NT	0.33	51	60	50	200	0.30	280
-20	30019	-69	30019 NT	0.39	47	55	50	190	0.45	240
-21	30020	-70	30020 NT	0.47	47	55	25	180	0.5	230
-22	30021	-71	30021 NT	0.56	45	53	25	170	0.5	230
-23	30022	-72	30022 NT	0.68	45	53	25	160	0.5	230
-24	30023	-73	30023 NT	0.82	45	53	25	150	0.5	230
-25	30024	-74	30024 NT	1.00	45	53	25	130	0.5	230
-26	30025	-75	30025 NT	1.2	36	43	7.9	120	0.6	200
-27	30026	-76	30026 NT	1.5	36	43	7.9	100	1.1	160
-28	30027	-77	30027 NT	1.8	38	45	7.9	90	1.1	160
-29	30028	-78	30028 NT	2.2	38	45	7.9	85	1.5	130
-30	30029	-79	30029 NT	2.7	41	48	7.9	80	1.7	125
-31	30030	-80	30030 NT	3.3	42	50	7.9	75	1.8	120
-32	30031	-81	30031 NT	3.9	42	50	7.9	65	2.0	110
-33	30032	-82	30032 NT	4.7	41	48	7.9	55	2.3	100
-34	30033	-83	30033 NT	5.6	41	48	7.9	45	2.6	98

CUSTOM DESIGNS & MODIFICATIONS:

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

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-35	30034	-84	30034 NT	6.8	36	43	7.9	40	2.8	94
-36	30035	-85	30035 NT	8.2	36	43	7.9	35	3.0	90
-37	30036	-86	30036 NT	10.0	36	43	7.9	33	3.3	87
-38	30037	-87	30037 NT	12.0	36	43	7.9	26	4.0	79
-39	30038	-88	30038 NT	15.0	32	38	2.5	24	4.2	77
-40	30039	-89	30039 NT	18.0	32	38	2.5	21	4.4	75
-41	30040	-90	30040 NT	22	32	38	2.5	19	7.5	57
-42	30041	-91	30041 NT	27	32	38	2.5	14	8.0	55
-43	30042	-92	30042 NT	33	30	35	2.5	12	13.0	45
-44	30043	-93	30043 NT	39	30	35	2.5	10	17.0	38
-45	30044	-94	30044 NT	47	30	35	2.5	9.0	19.0	36
-46	30045	-95	30045 NT	56	30	35	2.5	8.5	23.0	33
-47	30046	-96	30046 NT	68	30	35	2.5	8.2	25.0	32
-48	30047	-97	30047 NT	82	30	35	2.5	8.0	28.0	30
-49	30048	-98	30048 NT	100	30	35	2.5	7.0	31.0	28

Test Fixtures and Equipment:
To assure accurate measurement of Inductance and Q, use test fixtures and equipment specficed in Technical Information on VE1.com