



34000 SERIES

QPL: M83446/11



MIL-PRF-83446

ELECTRICAL SPECIFICATIONS

- **Inductance Range:** 0.10 μ H to 1000 μ H
- **Inductance Tolerance:** Standard is $\pm 10\%$, 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 34000 thru 34060: +1600 PPM/°C Max

FEATURES

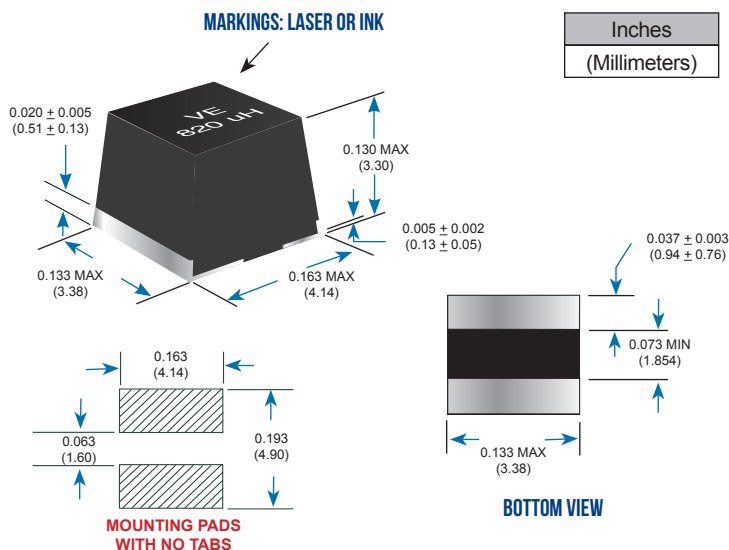
- **Transfer Molded Package**
- **Internal Welded Terminations**
- **Terminations:** Tin-lead
- **Optional Terminations on Request:**
Gold plated terminations (add suffix "G")
- **Tape and Reel Packaging Available**
- **Recommended Mounting Technique**
 - Reflow or Vapor Phase Soldering
 - Conductive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

APPLICATIONS

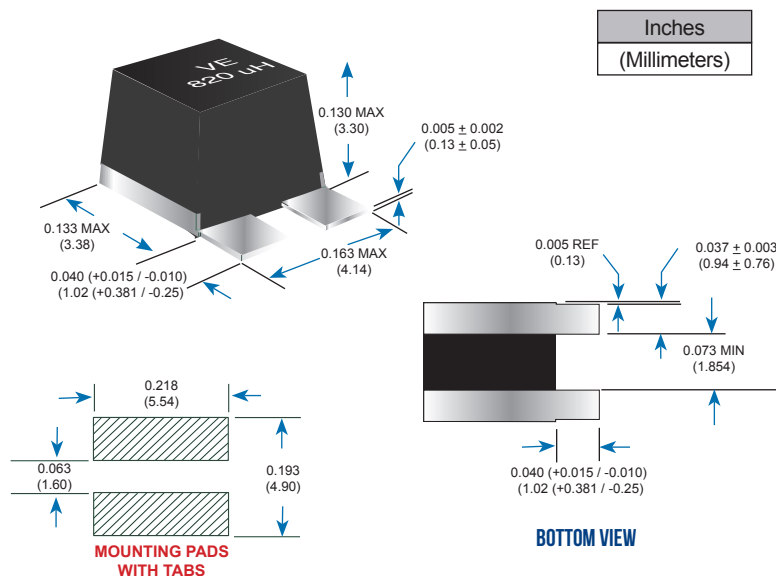
- **Additional Application Grades Available:**
 - Space Grade (MIL-STD-981)
 - High Temperature Grade (+200°C)
 - Commercial Grade or Equivalent

Inductance Range (μ H)	Typical Q	Current Rating (mA)
0.10 to 10000	85 to 140	21 to 1000

NO TABS



WITH TABS



34000 SERIES





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)
M83446/11 Dash No.	VE P/N	M83446/11 Dash No.	VE P/N							
-01	34000	-62	34000 NT	0.10	90	100	25	600	0.03	1000
-02	34001	-63	34001 NT	0.12	90	100	25	520	0.03	1000
-03	34002	-64	34002 NT	0.15	90	100	25	490	0.03	1000
-04	34003	-65	34003 NT	0.18	90	100	25	460	0.04	1000
-05	34004	-66	34004 NT	0.22	90	100	25	430	0.04	1000
-06	34005	-67	34005 NT	0.27	100	113	25	370	0.04	1000
-07	34006	-68	34006 NT	0.33	105	120	25	310	0.05	750
-08	34007	-69	34007 NT	0.39	115	130	25	280	0.05	750
-09	34008	-70	34008 NT	0.47	120	135	25	260	0.05	750
-10	34009	-71	34009 NT	0.56	120	135	25	240	0.06	750
-11	34010	-72	34010 NT	0.68	120	135	25	200	0.06	700
-12	34011	-73	34011 NT	0.82	120	135	25	185	0.06	700
-13	34012	-74	34012 NT	1.00	120	135	25	175	0.09	650
-14	34013	-75	34013 NT	1.20	90	100	7.9	150	0.09	650
-15	34014	-76	34014 NT	1.50	100	115	7.9	135	0.14	600
-16	34015	-77	34015 NT	1.80	100	115	7.9	120	0.20	500
-17	34016	-78	34016 NT	2.20	100	115	7.9	105	0.30	400
-18	34017	-79	34017 NT	2.70	100	115	7.9	85	0.40	350
-19	34018	-80	34018 NT	3.30	100	115	7.9	80	0.46	330
-20	34019	-81	34019 NT	3.90	105	120	7.9	64	0.52	310
-21	34020	-82	34020 NT	4.70	115	130	7.9	56	0.54	300
-22	34021	-83	34021 NT	5.60	115	130	7.9	49	0.60	285
-23	34022	-84	34022 NT	6.80	115	130	7.9	45	0.66	270
-24	34023	-85	34023 NT	8.20	115	130	7.9	41	1.00	225
-25	34024	-86	34024 NT	10	125	140	7.9	39	1.20	200
-26	34025	-87	34025 NT	12	100	113	2.5	34	1.5	180
-27	34026	-88	34026 NT	15	100	113	2.5	30	1.8	170
-28	34027	-89	34027 NT	18	100	113	2.5	26	1.9	160
-29	34028	-90	34028 NT	22	105	120	2.5	23	2.1	150
-30	34029	-91	34029 NT	27	110	125	2.5	20	2.4	140
-31	34030	-92	34030 NT	33	120	135	2.5	18	2.7	130
-32	34031	-93	34031 NT	39	120	135	2.5	17	3.1	125
-33	34032	-94	34032 NT	47	120	135	2.5	16	3.2	125
-34	34033	-95	34033 NT	56	110	125	2.5	14	3.5	120
-35	34034	-96	34034 NT	68	110	125	2.5	12	4.0	111
-36	34035	-97	34035 NT	82	110	125	2.5	10	4.8	102
-37	34036	-98	34036 NT	100	110	125	2.5	9.4	5.7	93
-38	34037	-99	34037 NT	120	85	95	0.79	8.0	6.2	89

CUSTOM DESIGNS & MODIFICATIONS:

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

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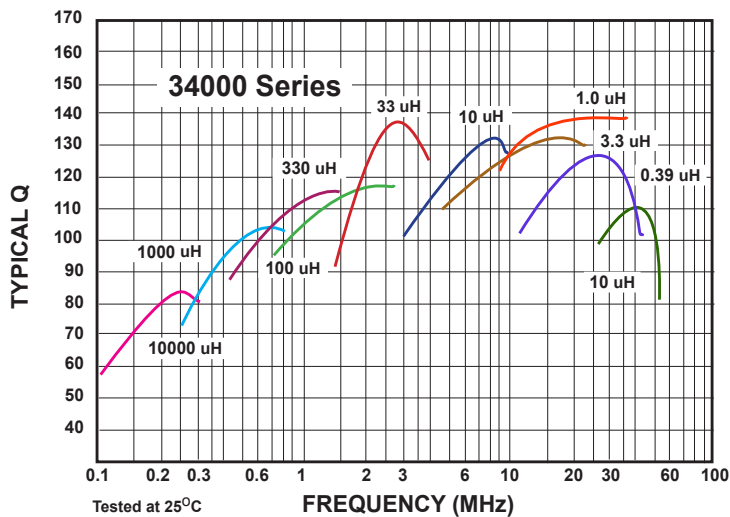




WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		Inductance (uH)	Q (Min)	Q (Typ)	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
M83446/11 Dash No.	VE P/N	M83446/11 Dash No.	VE P/N							
-39	34038	-100	34038 NT	150	85	95	0.79	8.0	6.3	89
-40	34039	-101	34039 NT	180	85	95	0.79	6.9	6.4	88
-41	34040	-102	34040 NT	220	85	95	0.79	6.1	7.4	82
-42	34041	-103	34041 NT	270	85	95	0.79	5.2	8.1	78
-43	34042	-104	34042 NT	330	100	113	0.79	4.6	8.8	75
-44	34043	-105	34043 NT	390	100	113	0.79	4.0	9.7	72
-45	34044	-106	34044 NT	470	100	113	0.79	3.6	10	69
-46	34045	-107	34045 NT	560	100	113	0.79	2.8	11	66
-47	34046	-108	34046 NT	680	100	113	0.79	2.3	12	64
-48	34047	-109	34047 NT	820	95	106	0.79	2.1	17	53
-49	34048	-110	34048 NT	1000	95	106	0.79	2.0	22	47
-50	34049	-111	34049 NT	1200	75	87	0.25	1.7	24	45
-51	34050	-112	34050 NT	1500	75	87	0.25	1.6	25	44
-52	34051	-113	34051 NT	1800	75	87	0.25	1.5	27	43
-53	34052	-114	34052 NT	2200	75	87	0.25	1.4	30	40
-54	34053	-115	34053 NT	2700	75	87	0.25	1.3	34	38
-55	34054	-116	34054 NT	3300	75	87	0.25	1.2	39	35
-56	34055	-117	34055 NT	3900	75	87	0.25	1.1	56	29
-57	34056	-118	34056 NT	4700	75	87	0.25	1.0	70	26
-58	34057	-119	34057 NT	5600	75	87	0.25	0.90	80	25
-59	34058	-120	34058 NT	6800	75	85	0.25	0.80	90	23
-60	34059	-121	34059 NT	8200	75	85	0.25	0.70	100	22
-61	34060	-122	34060 NT	10000	75	85	0.25	0.70	110	21

Test Fixtures and Equipment:

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



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