



C34000 SERIES



RoHS VERSION AVAILABLE

COTS +

ELECTRICAL SPECIFICATIONS

- **Inductance Range:** 0.10 uH to 10000 uH
- **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 C34000 thru C34060: +1600 PPM/°C Max.

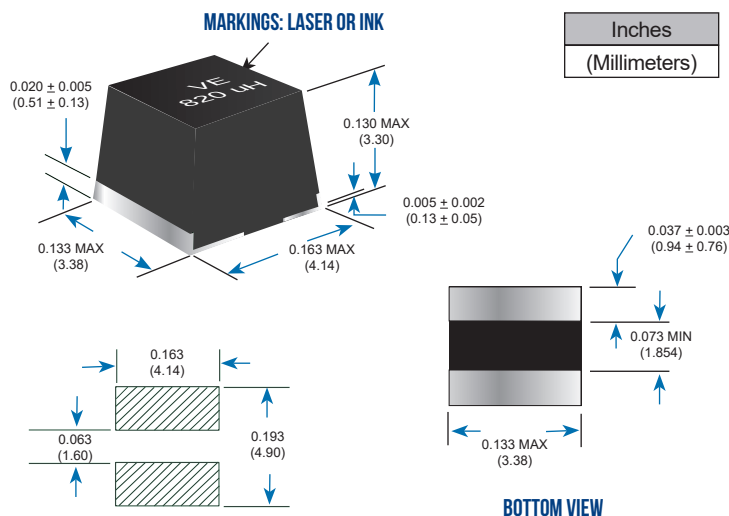
FEATURES

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

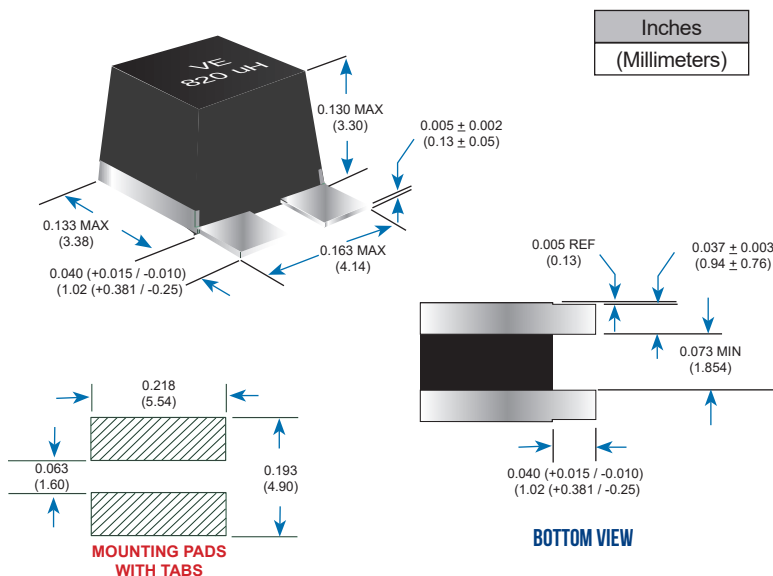
APPLICATIONS

- **Additional Application Grades Available:**
 - Military Grade (MIL-PRF-83446)
 - Space Grade (MIL-STD-981)
 - High temperature Grade (+200°C)

NO TABS



WITH TABS



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DATA TABLE

WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		Inductance Nom (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	C34000	-62	C34000-NT	0.10	77	86	25	510	0.04	850
-02	C34001	-63	C34001-NT	0.12	77	86	25	440	0.04	850
-03	C34002	-64	C34002-NT	0.15	77	86	25	410	0.04	850
-04	C34003	-65	C34003-NT	0.18	77	86	25	390	0.05	850
-05	C34004	-66	C34004-NT	0.22	77	86	25	360	0.05	850
-06	C34005	-67	C34005-NT	0.27	81	97	25	310	0.05	850
-07	C34006	-68	C34006-NT	0.33	95	108	25	260	0.06	630
-08	C34007	-69	C34007-NT	0.39	99	108	25	230	0.06	630
-09	C34008	-70	C34008-NT	0.47	104	113	25	220	0.06	630
-10	C34009	-71	C34009-NT	0.56	104	113	25	200	0.07	590
-11	C34010	-72	C34010-NT	0.68	104	113	25	170	0.07	590
-12	C34011	-73	C34011-NT	0.82	104	113	25	150	0.07	590
-13	C34012	-74	C34012-NT	1.00	104	113	25	140	0.11	550
-14	C34013	-75	C34013-NT	1.20	81	90	7.9	120	0.11	550
-15	C34014	-76	C34014-NT	1.50	90	104	7.9	110	0.17	510
-16	C34015	-77	C34015-NT	1.80	90	104	7.9	100	0.23	420
-17	C34016	-78	C34016-NT	2.20	90	104	7.9	89	0.35	340
-18	C34017	-79	C34017-NT	2.70	90	104	7.9	72	0.46	290
-19	C34018	-80	C34018-NT	3.30	90	104	7.9	68	0.53	280
-20	C34019	-81	C34019-NT	3.90	95	108	7.9	54	0.60	260
-21	C34020	-82	C34020-NT	4.70	104	117	7.9	47	0.63	250
-22	C34021	-83	C34021-NT	5.60	104	117	7.9	41	0.69	240
-23	C34022	-84	C34022-NT	6.80	104	117	7.9	38	0.76	220
-24	C34023	-85	C34023-NT	8.20	104	117	7.9	34	1.2	190
-25	C34024	-86	C34024-NT	10	104	117	7.9	33	1.4	170
-26	C34025	-87	C34025-NT	12	86	97	2.5	29	1.7	150
-27	C34026	-88	C34026-NT	15	86	97	2.5	25	2.1	140
-28	C34027	-89	C34027-NT	18	86	97	2.5	22	2.2	130
-29	C34028	-90	C34028-NT	22	95	108	2.5	19	2.4	120
-30	C34029	-91	C34029-NT	27	99	113	2.5	17	2.8	110
-31	C34030	-92	C34030-NT	33	99	113	2.5	15	3.1	110
-32	C34031	-93	C34031-NT	39	99	113	2.5	14	3.6	100
-33	C34032	-94	C34032-NT	47	99	113	2.5	13	3.7	100
-34	C34033	-95	C34033-NT	56	95	108	2.5	11	4.0	100
-35	C34034	-96	C34034-NT	68	95	108	2.5	10	4.6	94
-36	C34035	-97	C34035-NT	82	95	108	2.5	8.5	5.5	86
-37	C34036	-98	C34036-NT	100	95	108	2.5	7.9	6.6	79
-38	C34037	-99	C34037-NT	120	72	81	0.79	6.8	7.1	75
-39	C34038	-100	C34038-NT	150	72	81	0.79	6.8	7.3	75

* MIL-PRF-83446 numbers for reference

CUSTOM DESIGNS & MODIFICATIONS:

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

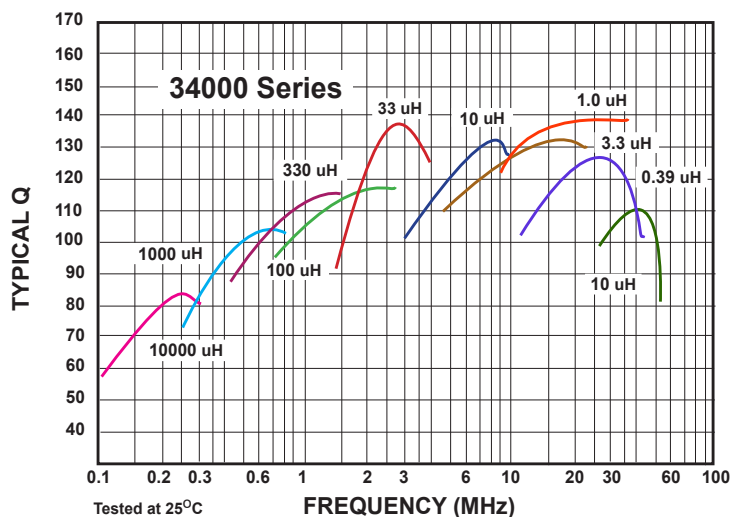
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WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		Inductance Nom (uH)	Q Min	Q Typ	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
*M83446/11 Dash No.	VE P/N	*M83446/11 Dash No.	VE P/N							
-40	C34039	-101	C34039-NT	180	77	86	0.79	5.8	7.4	74
-41	C34040	-102	C34040-NT	220	77	86	0.79	5.1	8.5	69
-42	C34041	-103	C34041-NT	270	77	86	0.79	4.4	9.3	66
-43	C34042	-104	C34042-NT	330	90	102	0.79	3.9	10	63
-44	C34043	-105	C34043-NT	390	90	102	0.79	3.4	11	61
-45	C34044	-106	C34044-NT	470	90	102	0.79	3.0	12	58
-46	C34045	-107	C34045-NT	560	90	102	0.79	2.3	13	56
-47	C34046	-108	C34046-NT	680	90	102	0.79	1.9	14	54
-48	C34047	-109	C34047-NT	820	86	102	0.79	1.7	20	45
-49	C34048	-110	C34048-NT	1000	86	95	0.79	1.7	25	39
-50	C34049	-111	C34049-NT	1200	68	95	0.25	1.4	28	38
-51	C34050	-112	C34050-NT	1500	68	78	0.25	1.3	29	37
-52	C34051	-113	C34051-NT	1800	68	78	0.25	1.2	31	36
-53	C34052	-114	C34052-NT	2200	68	78	0.25	1.1	35	34
-54	C34053	-115	C34053-NT	2700	68	78	0.25	1.1	39	32
-55	C34054	-116	C34054-NT	3300	68	78	0.25	1.0	45	29
-56	C34055	-117	C34055-NT	3900	68	78	0.25	0.9	64	24
-57	C34056	-118	C34056-NT	4700	68	78	0.25	0.8	81	22
-58	C34057	-119	C34057-NT	5600	68	78	0.25	0.7	92	21
-59	C34058	-120	C34058-NT	6800	68	77	0.25	0.6	104	19
-60	C34059	-121	C34059-NT	8200	68	77	0.25	0.5	115	18
-61	C34060	-122	C34060-NT	10000	68	77	0.25	0.5	127	17

* MIL-PRF-83446 numbers for reference



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