



S34000 SERIES

QPL: M83446/11



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

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

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 S34000 thru S34047: +1600 PPM/°C Max.
- **Outgassing meets NASA spec SP-R-0022A:** TML < 1%

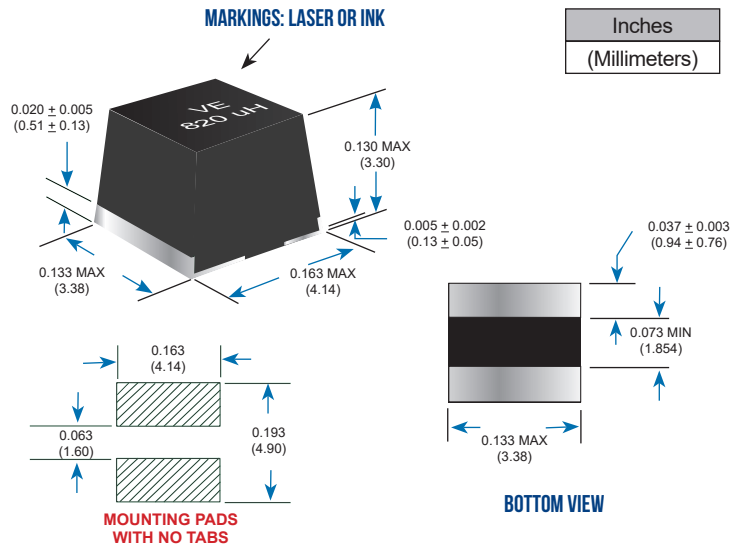
FEATURES

- **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)

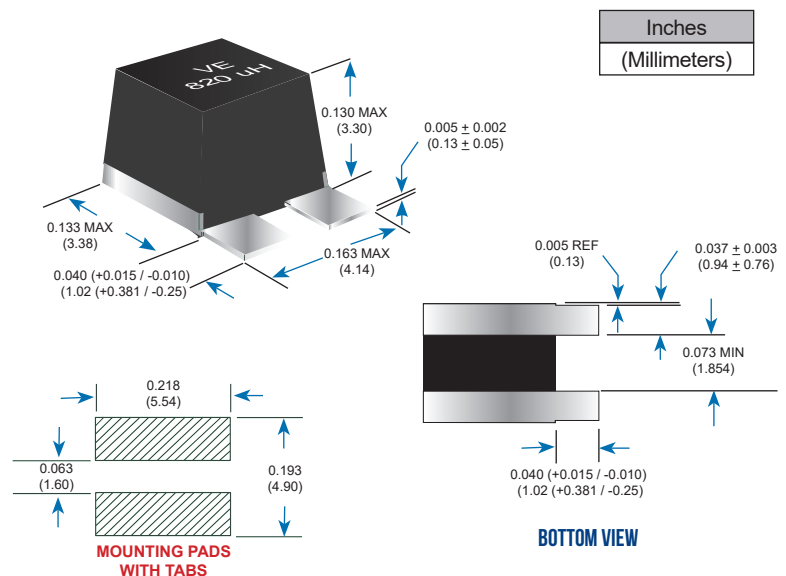
APPLICATIONS

- **Additional Application Grades Available:**
 - Military Grade (MIL-PRF-83446)
 - High Temperature Grade (+200°C)
 - Commercial Grade or Equivalent

NO TABS



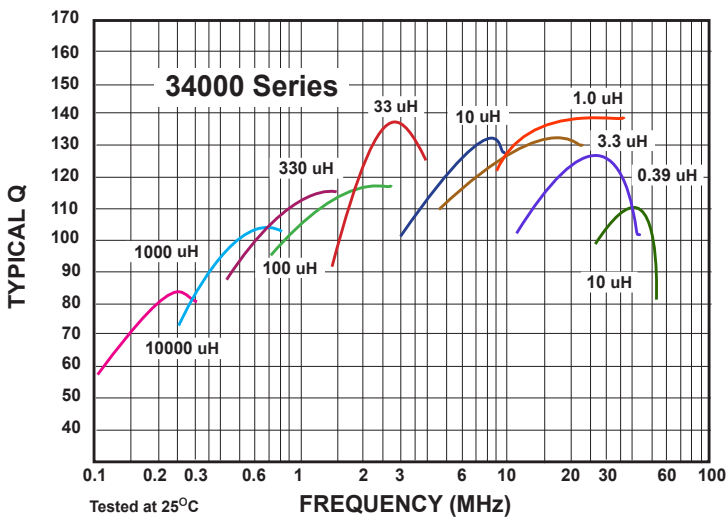
WITH TABS





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	S34039	-101	S34039 NT	180	85	95	0.79	6.9	6.4	88
-41	S34040	-102	S34040 NT	220	85	95	0.79	6.1	7.4	82
-42	S34041	-103	S34041 NT	270	85	95	0.79	5.2	8.1	78
-43	S34042	-104	S34042 NT	330	100	113	0.79	4.6	8.8	75
-44	S34043	-105	S34043 NT	390	100	113	0.79	4.0	9.7	72
-45	S34044	-106	S34044 NT	470	100	113	0.79	3.6	10	69
-46	S34045	-107	S34045 NT	560	100	113	0.79	2.8	11	66
-47	S34046	-108	S34046 NT	680	100	113	0.79	2.3	12	64
-48	S34047	-109	S34047 NT	820	95	106	0.79	2.1	17	53
-49	S34048♦	-110	S34048 NT	1000	95	106	0.79	2.0	22	47
-50	S34049♦	-111	S34049 NT	1200	75	87	0.25	1.7	24	45
-51	S34050♦	-112	S34050 NT	1500	75	87	0.25	1.6	25	44
-52	S34051♦	-113	S34051 NT	1800	75	87	0.25	1.5	27	43
-53	S34052♦	-114	S34052 NT	2200	75	87	0.25	1.4	30	40
-54	S34053♦	-115	S34053 NT	2700	75	87	0.25	1.3	34	38
-55	S34054♦	-116	S34054 NT	3300	75	87	0.25	1.2	39	35
-56	S34055♦	-117	S34055 NT	3900	75	87	0.25	1.1	56	29
-57	S34056♦	-118	S34056 NT	4700	75	87	0.25	1.0	70	26
-58	S34057♦	-119	S34057 NT	5600	75	87	0.25	0.90	80	25
-59	S34058♦	-120	S34058 NT	6800	75	85	0.25	0.80	90	23
-60	S34059♦	-121	S34059 NT	8200	75	85	0.25	0.70	100	22
-61	S34060♦	-122	S34060 NT	10000	75	85	0.25	0.70	110	21

♦ Note: Part numbers noted are MIL-STD-981, Class "S" compliant with the exception of wire size. All other aspects are met 100%. Contact Vanguard for more information



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