



S30000 SERIES

QPL: M83446/08



ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

Inductance Range (uH)	Typical Q	Current Rating (mA)
0.010 to 18	38 to 60	75 to 750

ELECTRICAL SPECIFICATIONS

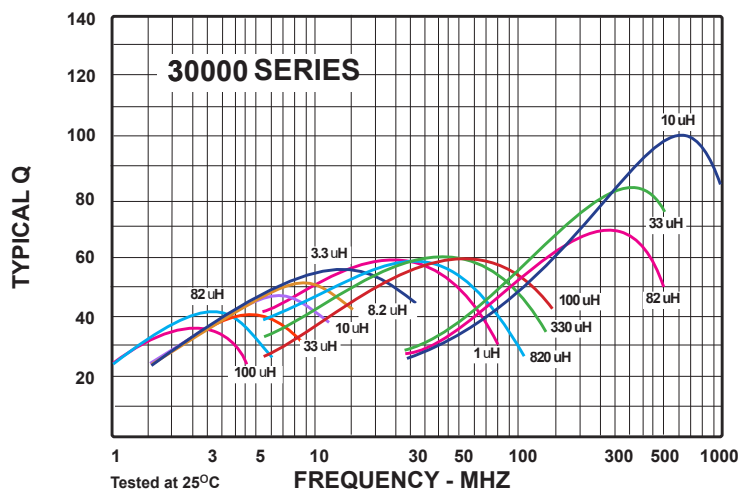
- **Inductance Range:** 0.010 uH to 18 uH
- **Inductance Tolerance:** Standard is $\pm 10\%$, tighter tolerance available upon request
- **Resistance to Solder Heat:** 260°C for 10 seconds
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -55°C to 125°C
- **Temperature Rise:** 30°C Max at 90°C Ambient
- **Temperature Coefficient of Inductance**
 - P/N S30000 thru S30011: +125 PPM/oC Max.
 - P/N S30012 thru S30039: +80 PPM/oC Max.
- **Outgassing meets NASA spec SP-R-0022A:** TML < 1%

FEATURES

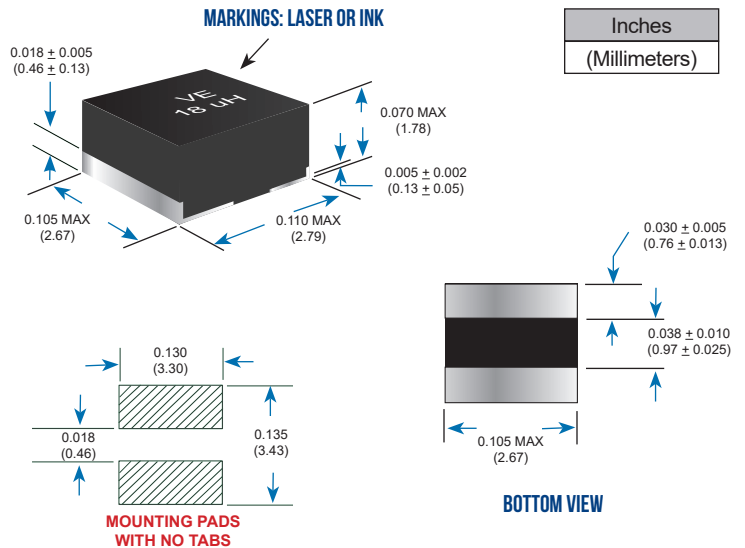
- **Internal Welded Terminations**
- **Terminations:** Tin-lead
- **Optional Terminations on Request:** Gold plated terminations
- **Tape and Reel Packaging Available**
- **Recommended Mounting Technique**
 - Reflow or Vapor Phase Soldering
 - Conductive Epoxy
 - Wire bonding (gold lead only)

APPLICATIONS

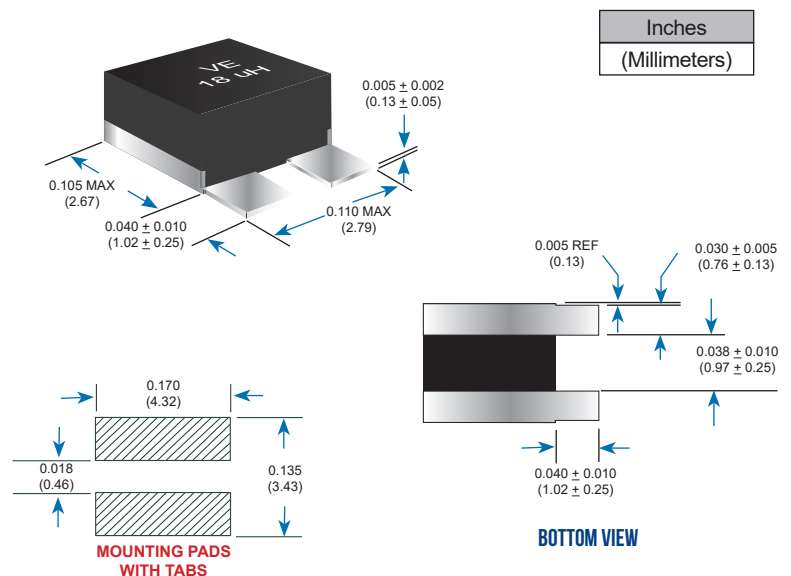
- **Additional Application Grades Available:**
 - Military Grade (MIL-PRF-83446)
 - High Temperature Grade (+200°C)
 - Commercial Grade or Equivalent



NO TABS



WITH TABS



S30000 SERIES





WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		Inductance (uH)	Q Min	Q Typ	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
M83446/08 Dash No.	VE P/N	M83446/08 Dash No.	VE P/N							
-35	S30034	-84	S30034 NT	6.8	36	43	7.9	40	2.8	94
-36	S30035	-85	S30035 NT	8.2	36	43	7.9	35	3.0	90
-37	S30036	-86	S30036 NT	10.0	36	43	7.9	33	3.3	87
-38	S30037	-87	S30037 NT	12.0	36	43	7.9	26	4.0	79
-39	S30038	-88	S30038 NT	15.0	32	38	2.5	24	4.2	77
-40	S30039	-89	S30039 NT	18.0	32	38	2.5	21	4.4	75
-41	S30040 ♦	-90	S30040 NT ♦	22	32	38	2.5	19	7.5	57
-42	S30041 ♦	-91	S30041 NT ♦	27	32	38	2.5	14	8.0	55
-43	S30042 ♦	-92	S30042 NT ♦	33	30	35	2.5	12	13.0	45
-44	S30043 ♦	-93	S30043 NT ♦	39	30	35	2.5	10	17.0	38
-45	S30044 ♦	-94	S30044 NT ♦	47	30	35	2.5	9.0	19.0	36
-46	S30045 ♦	-95	S30045 NT ♦	56	30	35	2.5	8.5	23.0	33
-47	S30046 ♦	-96	S30046 NT ♦	68	30	35	2.5	8.2	25.0	32
-48	S30047 ♦	-97	S30047 NT ♦	82	30	35	2.5	8.0	28.0	30
-49	S30048 ♦	-98	S30048 NT ♦	100	30	35	2.5	7.0	31.0	28

♦ **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

VE PART NUMBER STRUCTURE KEY

EXAMPLE: S30001-NT-F-KS

TABS

Blank	With Tabs
NT	Without Tabs

TERMINATION

F	Tin Lead (Standard)
G	Gold

TOLERANCE

M	20%
K	10%
J	5%
*H	3%
*G	2%
*F	1%

* Consult Factory

RELIABILITY

E	EDU
B	CLASS B
S	CLASS S

Tested per MIL-STD-981

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