



S27000 SERIES

QPL: M83446/6



ELECTRICAL SPECIFICATIONS

- **Inductance Range:** 12 uH to 1000 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
- **Low Outgassing:** TML <1%
- **Temperature Coefficient of Inductance**
 - P/N S27037 thru S27050: +80 PPM/°C Max.
 - P/N S27051 thru S27060: +200 PPM/°C Max.

FEATURES

- **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
 - Wire bonding (gold lead only)

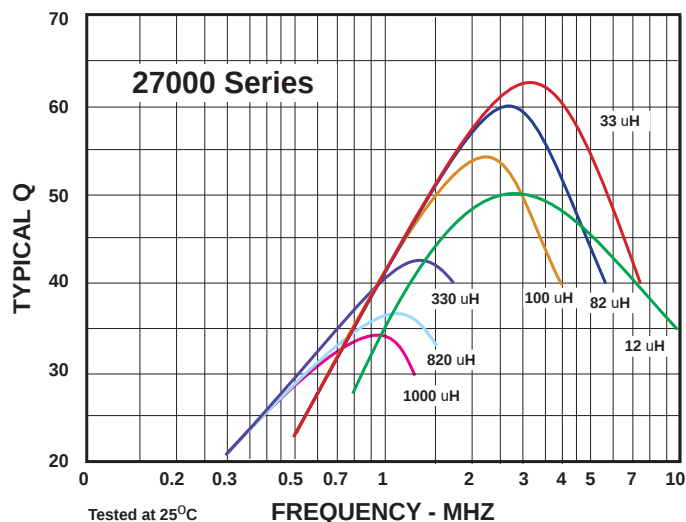
MIL-STD-981 Testing:

Add "-S" suffix for Class S Testing

Add "-B" suffix for Class B Testing

APPLICATIONS

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

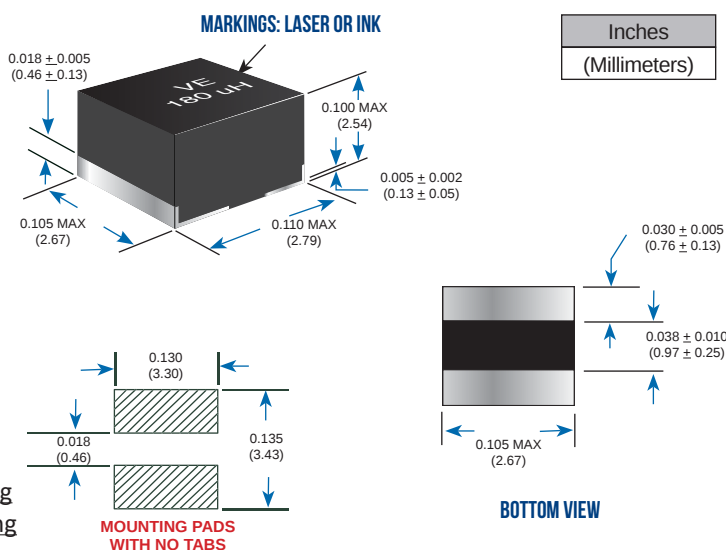


ALL PARTS AVAILABLE AS CLASS S OR CLASS B

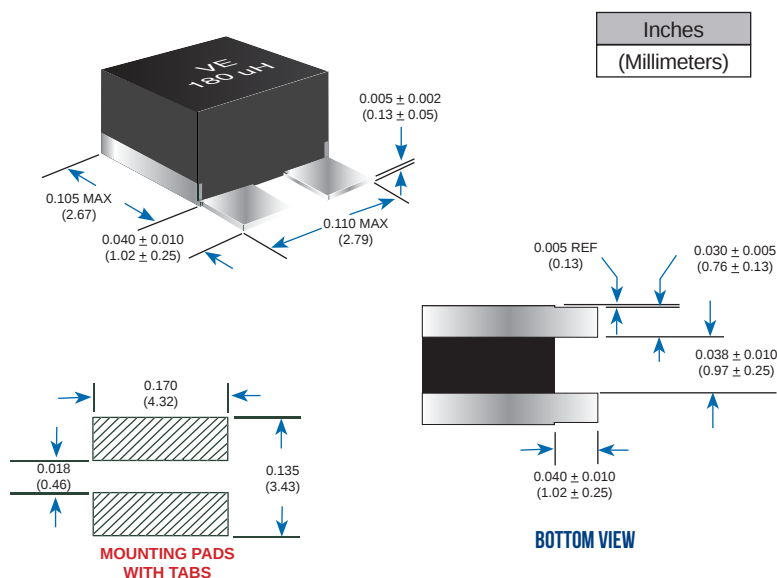
MIL-STD-981

Inductance Range (uH)	Typical Q	Current Rating (mA)
12 to 1000	18 to 64	15 to 110

NO TABS



WITH TABS



S27000 SERIES





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)
M83446/6 Dash No.	VE P/N	M83446/6 Dash No.	VE P/N							
-01	S27037	-25	S27037-NT	12	42	50	2.5	26	2.0	110
-02	S27038	-26	S27038-NT	15	44	52	2.5	24	2.2	105
-03	S27039	-27	S27039-NT	18	44	52	2.5	21	2.8	100
-04	S27040	-28	S27040-NT	22	48	55	2.5	20	3.5	85
-05	S27041	-29	S27041-NT	27	49	57	2.5	19	4.3	75
-06	S27042	-30	S27042-NT	33	50	58	2.5	14	5.5	68
-07	S27043 ♦	-31	S27043-NT ♦	39	52	60	2.5	12	6.5	61
-08	S27044	-32	S27044-NT	47	53	62	2.5	11	8.5	54
-09	S27045 ♦	-33	S27045-NT ♦	56	56	64	2.5	10	12	46
-10	S27046 ♦	-34	S27046-NT ♦	68	53	62	2.5	9	13	42
-11	S27047 ♦	-35	S27047-NT ♦	82	49	57	2.5	8	15	40
-12	S27048 ♦	-36	S27048-NT ♦	100	49	57	2.5	7	18	36
-13	S27049 ♦	-37	S27049-NT ♦	120	37	45	0.79	6	21	34
-14	S27050 ♦	-38	S27050-NT ♦	150	30	38	0.79	5	26	31
-15	S27051 ♦	-39	S27051-NT ♦	180	30	38	0.79	5	28	29
-16	S27052 ♦	-40	S27052-NT ♦	220	26	32	0.79	4.5	32	28
-17	S27053 ♦	-41	S27053-NT ♦	270	26	32	0.79	4.0	36	26
-18	S27054 ♦	-42	S27054-NT ♦	330	24	30	0.79	3.7	42	24
-19	S27055 ♦	-43	S27055-NT ♦	390	24	30	0.79	3.5	46	23
-20	S27056 ♦	-44	S27056-NT ♦	470	24	30	0.79	3.0	68	19
-21	S27057 ♦	-45	S27057-NT ♦	560	22	28	0.79	2.8	77	18
-22	S27058 ♦	-46	S27058-NT ♦	680	20	26	0.79	2.5	85	17
-23	S27059 ♦	-47	S27059-NT ♦	820	16	22	0.79	2.0	100	16
-24	S27060 ♦	-48	S27060-NT ♦	1000	12	18	0.79	1.5	120	15

♦ 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

CUSTOM DESIGNS & MODIFICATIONS:

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

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