



## 27000 SERIES

QPL: M83446/5



### MIL-PRF-83446

### 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
- **Temperature Coefficient of Inductance**
  - P/N 27037 thru 27050: +80 PPM/oC Max.
  - P/N 27051 thru 27060: +200 PPM/oC Max.

### FEATURES

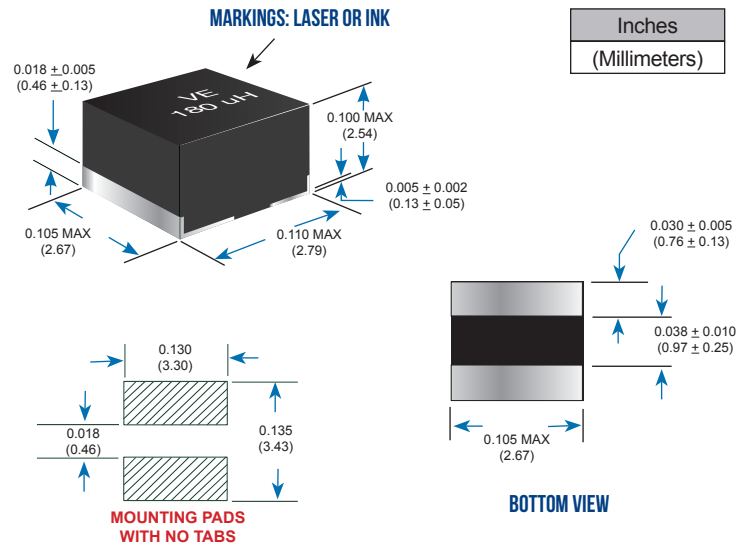
- **Transfer Molded Package**
- **Internal Welded Terminations**
- **Terminations:** Tin-lead over phosphorus bronze
- **Optional Termination on Request:** Gold plated terminations (add suffix "G")
- **Tape and Reel Packaging Available**
- **Recommended Mounting Technique**
  - Reflow or Vapor Phase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

### APPLICATIONS

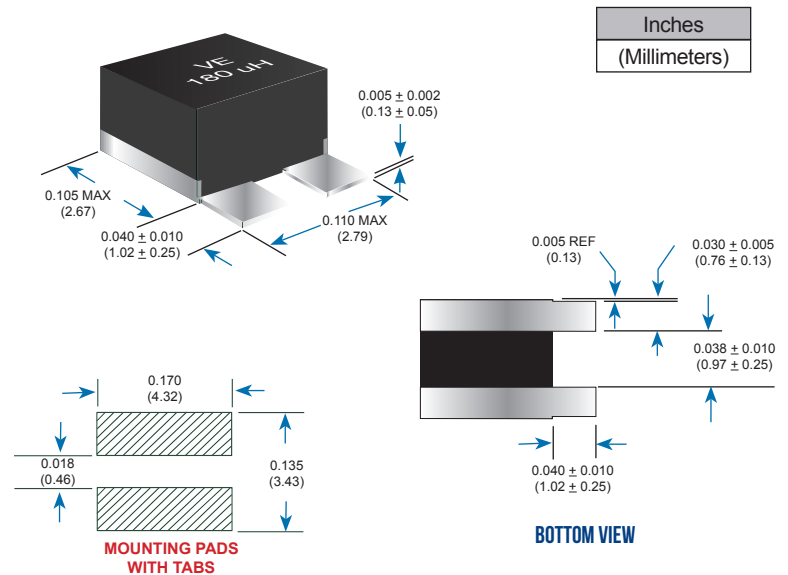
- **Additional Application Grades Available:**
  - Space Grade (MIL-STD-981)
  - High Temperature Grade (+200°C)
  - Commercial Grade or Equivalent

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

### NO TABS



### WITH TABS



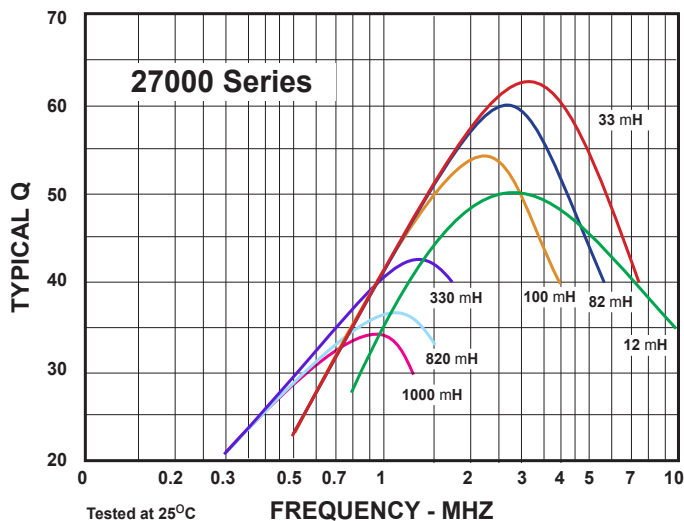


DATA TABLE

WITH TAB TERMINATIONS		WITHOUT TAB TERMINATIONS		Inductance (uH)	Q (Min)	Q (Typ)	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
M83446/6 Dash No.	VE P/N	M83446/6 Dash No.	VE P/N							
-01	27037	-25	27037 NT	12	42	50	2.5	26	2.0	110
-02	27038	-26	27038 NT	15	44	52	2.5	24	2.2	105
-03	27039	-27	27039 NT	18	44	52	2.5	21	2.8	100
-04	27040	-28	27040 NT	22	48	55	2.5	20	3.5	85
-05	27041	-29	27041 NT	27	49	57	2.5	19	4.3	75
-06	27042	-30	27042 NT	33	50	58	2.5	14	5.5	68
-07	27043	-31	27043 NT	39	52	60	2.5	12	6.5	61
-08	27044	-32	27044 NT	47	53	62	2.5	11	8.5	54
-09	27045	-33	27045 NT	56	56	64	2.5	10	12	46
-10	27046	-34	27046 NT	68	53	62	2.5	9	13	42
-11	27047	-35	27047 NT	82	49	57	2.5	8	15	40
-12	27048	-36	27048 NT	100	49	57	2.5	7	18	36
-13	27049	-37	27049 NT	120	37	45	0.79	6	21	34
-14	27050	-38	27050 NT	150	30	38	0.79	5	26	31
-15	27051	-39	27051 NT	180	30	38	0.79	5	28	29
-16	27052	-40	27052 NT	220	26	32	0.79	4.5	32	28
-17	27053	-41	27053 NT	270	26	32	0.79	4.0	36	26
-18	27054	-42	27054 NT	330	24	30	0.79	3.7	42	24
-19	27055	-43	27055 NT	390	24	30	0.79	3.5	46	23
-20	27056	-44	27056 NT	470	24	30	0.79	3.0	68	19
-21	27057	-45	27057 NT	560	22	28	0.79	2.8	77	18
-22	27058	-46	27058 NT	680	20	26	0.79	2.5	85	17
-23	27059	-47	27059 NT	820	16	22	0.79	2.0	100	16
-24	27060	-48	27060 NT	1000	12	18	0.79	1.5	120	15

Test Fixtures and Equipment:

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



CUSTOM DESIGNS & MODIFICATIONS:

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

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