



## C27000 SERIES



RoHS VERSION AVAILABLE

COTS+

Inductance Range (uH)	Typical Q	Current Rating (mA)
12 to 1000	12 to 50	12 to 93

### 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 C27037 thru C27050: +80 PPM/°C Max.
  - P/N C27051 thru C27060: +200 PPM/°C Max.

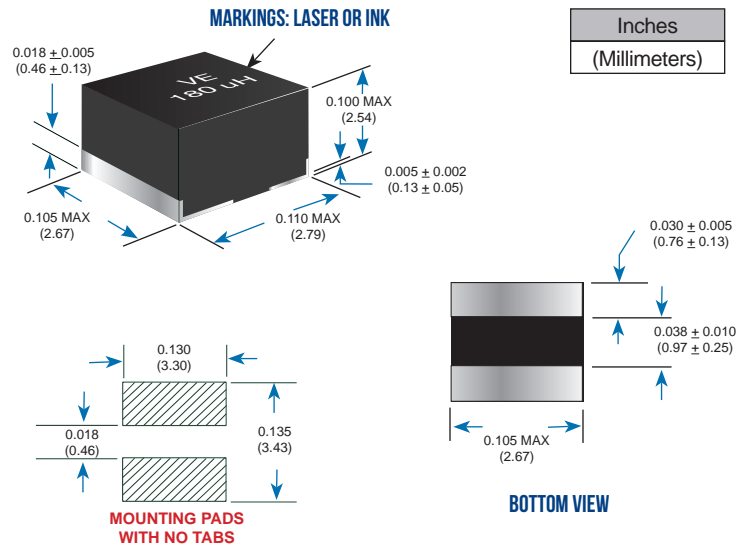
### FEATURES

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

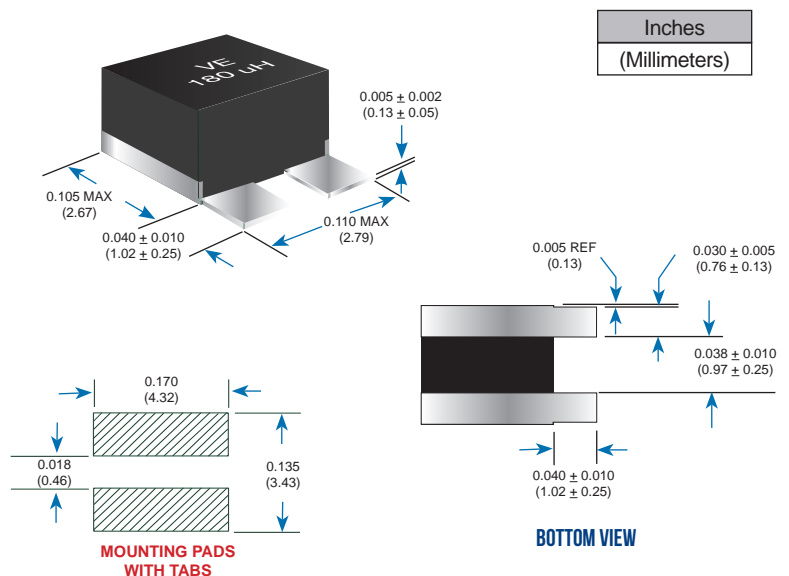
### APPLICATIONS

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

### NO TABS



### WITH TABS

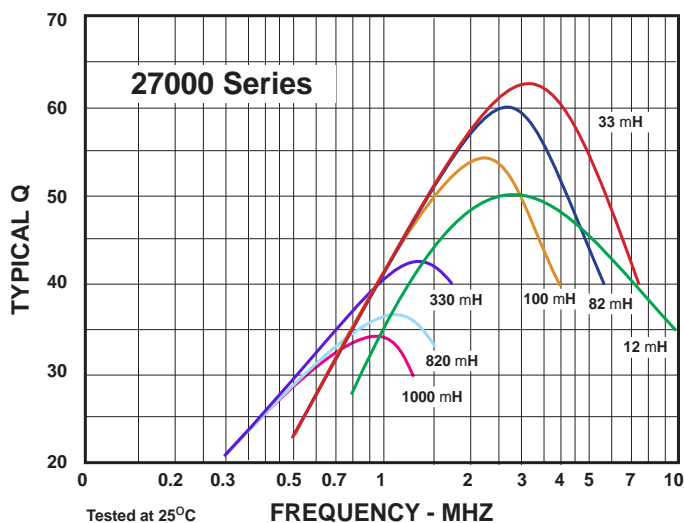


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WITH TAB TERMINATIONS	WITHOUT TAB TERMINATIONS							
VE P/N	VE P/N	Inductance Nom (uH)	Q Min	Q Typ	Test Freq (MHz)	SRF Min (MHz)	DCR Max (Ohms)	Current Max (mA)
C27037	C27037-NT	12	33	41	2.5	22	2.3	93
C27038	C27038-NT	15	35	42	2.5	20	2.6	89
C27039	C27039-NT	18	35	42	2.5	18	3.3	85
C27040	C27040-NT	22	38	42	2.5	17	4.1	72
C27041	C27041-NT	27	38	42	2.5	16	5.0	63
C27042	C27042-NT	33	41	47	2.5	12	6.4	57
C27043	C27043-NT	39	42	49	2.5	10	7.5	51
C27044	C27044-NT	47	42	49	2.5	9.4	9.8	45
C27045	C27045-NT	56	42	50	2.5	8.5	14	39
C27046	C27046-NT	68	42	50	2.5	7.7	15	35
C27047	C27047-NT	82	39	45	2.5	6.8	18	34
C27048	C27048-NT	100	39	45	2.5	6.0	21	30
C27049	C27049-NT	120	22	25	0.79	5.1	25	28
C27050	C27050-NT	150	20	26	0.79	4.3	30	26
C27051	C27051-NT	180	20	26	0.79	4.3	33	24
C27052	C27052-NT	220	18	24	0.79	3.3	37	23
C27053	C27053-NT	270	18	24	0.79	3.1	42	22
C27054	C27054-NT	330	16	23	0.79	3.0	49	20
C27055	C27055-NT	390	16	23	0.79	2.6	53	19
C27056	C27056-NT	470	16	23	0.79	2.6	79	16
C27057	C27057-NT	560	15	21	0.79	2.4	89	15
C27058	C27058-NT	680	14	19	0.79	2.1	98	14
C27059	C27059-NT	820	13	15	0.79	1.7	115	13
C27060	C27060-NT	1000	9	12	0.79	1.3	138	12



**CUSTOM DESIGNS & MODIFICATIONS:**

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

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