



## XT30000 SERIES



+200°C

Inductance Range (uH)	Typical Q	Current Rating (mA)
0.010 to 100	35 to 60	28 to 750

### ELECTRICAL SPECIFICATIONS

- **Inductance Range:** 0.010 uH to 100 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 +200°C
- **Storage Temperature:** -55°C to 200°C
- **Temperature Rise:** 30°C Max at 90°C Ambient
- **Temperature Coefficient of Inductance**
  - P/N XT30000 thru XT30011: +125 PPM/oC Max.
  - P/N XT30012 thru XT30048: +80 PPM/oC Max.

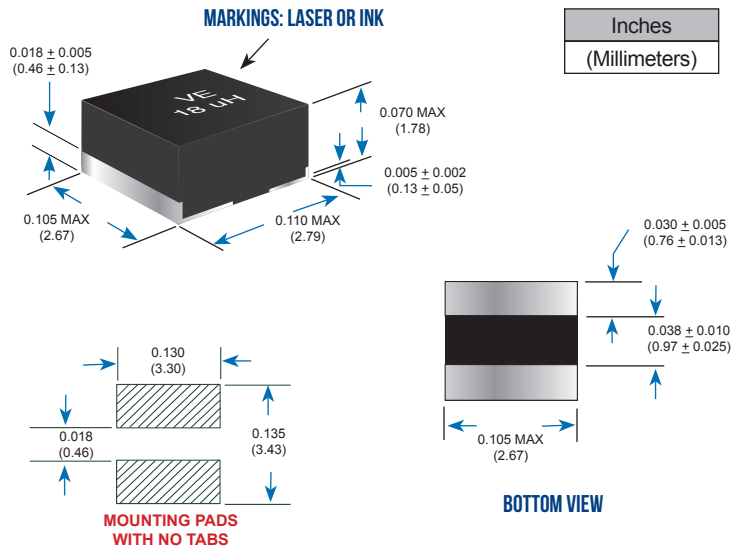
### FEATURES

- **Ideal for geophysical applications in environments up to 200°C**
- **Transfer Molded Package**
- **Internal Welded Terminations**
- **Terminations:** HMP solder
- **Optional Termination on Request:**  
Gold plated terminations (add suffix "G")  
RoHS compliant terminations (add prefix "R")
- **Tape and Reel Packaging Available**
- **Recommended Mounting Technique**
  - Reflow or Vapor Phase Soldering
  - Conductive Epoxy
  - Wire bonding (gold lead only)

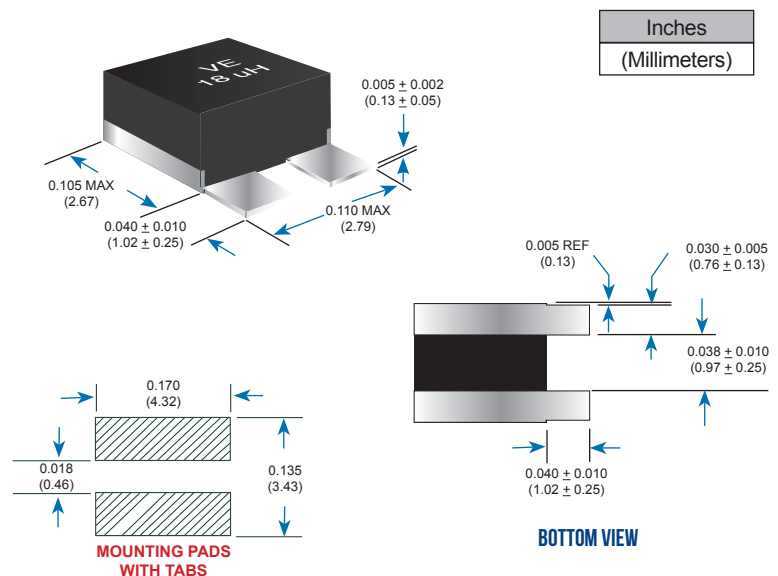
### APPLICATIONS

- **Additional Application Grades Available:**
  - Military Grade (MIL-PRF-83446)
  - Space Grade (MIL-STD-981)
  - Commercial Grade or Equivalent

### NO TABS



### WITH TABS





## DATA TABLE

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)
XT30000	XT30000 NT	0.010	50	55	150	2000	0.025	750
XT30001	XT30001 NT	0.012	50	55	150	2000	0.025	750
XT30002	XT30002 NT	0.015	50	55	150	1800	0.04	750
XT30003	XT30003 NT	0.018	50	55	150	1500	0.04	750
XT30004	XT30004 NT	0.022	45	50	100	1400	0.04	750
XT30005	XT30005 NT	0.027	45	50	100	1200	0.04	750
XT30006	XT30006 NT	0.033	47	55	100	1100	0.05	640
XT30007	XT30007 NT	0.039	47	55	100	1000	0.07	600
XT30008	XT30008 NT	0.047	47	55	100	900	0.08	550
XT30009	XT30009 NT	0.056	47	55	100	850	0.09	520
XT30010	XT30010 NT	0.068	47	55	100	840	0.10	480
XT30011	XT30011 NT	0.082	47	55	100	750	0.11	470
XT30012	XT30012 NT	0.10	47	55	50	580	0.11	470
XT30013	XT30013 NT	0.12	47	55	50	240	0.11	470
XT30014	XT30014 NT	0.15	47	55	50	230	0.12	450
XT30015	XT30015 NT	0.18	51	60	50	230	0.14	430
XT30016	XT30016 NT	0.22	51	60	50	230	0.20	350
XT30017	XT30017 NT	0.27	51	60	50	230	0.25	310
XT30018	XT30018 NT	0.33	51	60	50	200	0.30	280
XT30019	XT30019 NT	0.39	47	55	50	190	0.45	240
XT30020	XT30020 NT	0.47	47	55	25	180	0.5	230
XT30021	XT30021 NT	0.56	45	53	25	170	0.5	230
XT30022	XT30022 NT	0.68	45	53	25	160	0.5	230
XT30023	XT30023 NT	0.82	45	53	25	150	0.5	230
XT30024	XT30024 NT	1.00	45	53	25	130	0.5	230
XT30025	XT30025 NT	1.2	36	43	7.9	120	0.6	200
XT30026	XT30026 NT	1.5	36	43	7.9	100	1.1	160
XT30027	XT30027 NT	1.8	38	45	7.9	90	1.1	160
XT30028	XT30028 NT	2.2	38	45	7.9	85	1.5	130
XT30029	XT30029 NT	2.7	41	48	7.9	80	1.7	125
XT30030	XT30030 NT	3.3	42	50	7.9	75	1.8	120
XT30031	XT30031 NT	3.9	42	50	7.9	65	2.0	110
XT30032	XT30032 NT	4.7	41	48	7.9	55	2.3	100
XT30033	XT30033 NT	5.6	41	48	7.9	45	2.6	98

### CUSTOM DESIGNS & MODIFICATIONS:

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

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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)
XT30034	XT30034 NT	6.8	36	43	7.9	40	2.8	94
XT30035	XT30035 NT	8.2	36	43	7.9	35	3.0	90
XT30036	XT30036 NT	10.0	36	43	7.9	33	3.3	87
XT30037	XT30037 NT	12.0	36	43	7.9	26	4.0	79
XT30038	XT30038 NT	15.0	32	38	2.5	24	4.2	77
XT30039	XT30039 NT	18.0	32	38	2.5	21	4.4	75
XT30040	XT30040 NT	22	32	38	2.5	19	7.5	57
XT30041	XT30041 NT	27	32	38	2.5	14	8.0	55
XT30042	XT30042 NT	33	30	35	2.5	12	13.0	45
XT30043	XT30043 NT	39	30	35	2.5	10	17.0	38
XT30044	XT30044 NT	47	30	35	2.5	9.0	19.0	36
XT30045	XT30045 NT	56	30	35	2.5	8.5	23.0	33
XT30046	XT30046 NT	68	30	35	2.5	8.2	25.0	32
XT30047	XT30047 NT	82	30	35	2.5	8.0	28.0	30
XT30048	XT30048 NT	100	30	35	2.5	7.0	31.0	28

### Test Fixtures and Equipment:

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

