



## XT71000 SERIES

### +200°C

AS9100 CERTIFIED | ISO 9001 CERTIFIED

Vanguard Electronics has developed the XT71000 series which is specifically designed for power applications, POL, DC/DC converters and power supplies. These inductors are designed and tested specifically for extreme environments. These devices are suited for applications such as oil exploration, high temperature operation, avionics and more. Parts are compatible with all popular types of terminations including wire bonding. Customized versions and custom parts are available upon request.

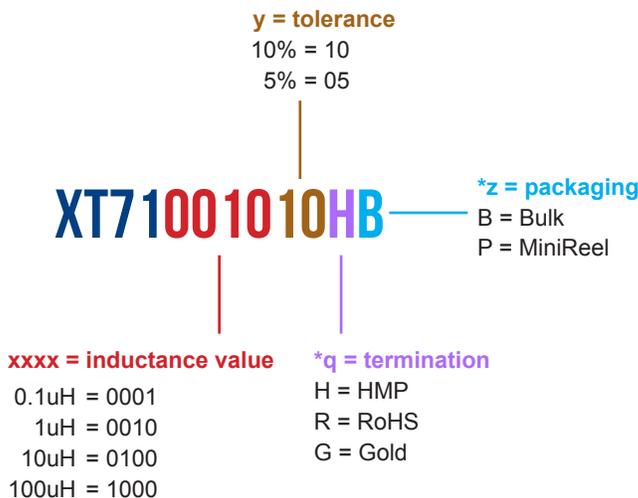
### ELECTRICAL SPECIFICATIONS

- **Inductance Range:** 1.0 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

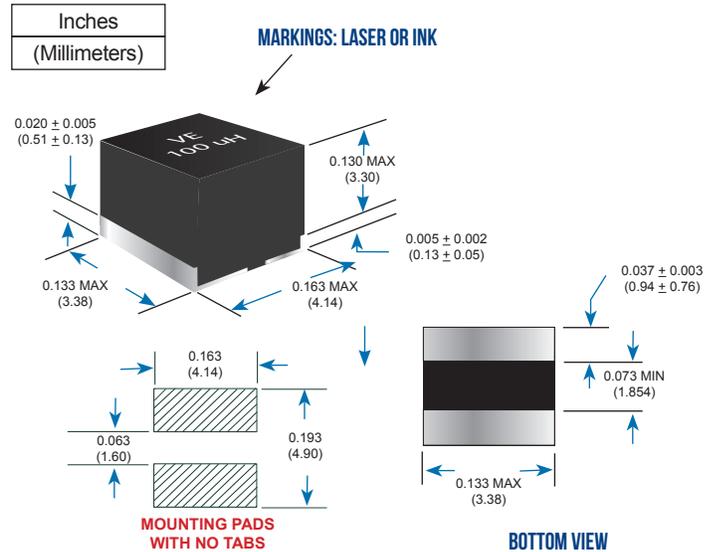
### FEATURES

- Transfer Molded Package
- Internal welded terminations
- Designed with high reliability and high temperature materials
- Tested and proven in harsh and extreme environments
- Mini Reels (100pcs) for automatic placement

### VE PART NUMBER STRUCTURE KEY



Inductance Range (uH)	DCR (Ohms)	I <sub>max</sub> (mA)
1 to 100	0.07 to 5.7	93 to 650



# PRELIMINARY

VE P/N	Inductance (uH)	Typical Values		
		DCR (Ohms)	SRF (MHz)	I <sub>max</sub> (mA)
XT710010**	1	0.07	185	650
XT710018**	1.8	0.2	120	500
XT710022**	2.2	0.3	105	400
XT710033**	3.3	0.5	80	330
XT710047**	4.7	0.5	56	300
XT710056**	5.6	0.6	49	285
XT710068**	6.8	0.7	45	270
XT710086**	8.6	1.0	41	225
XT710100**	10	1.1	49	200
XT710180**	18	1.9	26	160
XT710220**	22	2.1	23	150
XT710330**	33	2.4	20	140
XT710470**	47	3.2	16	125
XT710560**	56	3.5	14	120
XT710680**	68	4.0	12	110
XT710860**	86	4.8	10	100
XT711000**	100	5.7	8	93

