



## XT60000 SERIES PACKAGE A3



+200°C

Inductance Range (mH)	DCR Max (Ohms)	Current Rating (mA)
0.025 to 10	0.093 to 33.75	80 to 1560

### ELECTRICAL SPECIFICATIONS

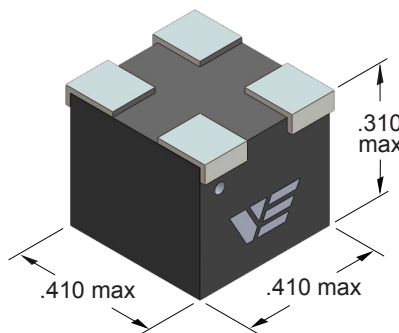
- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -45°C to +205°C
- **Temperature Rise:** < 30°C
- **Inductance at rated DC:** ≥70% of initial
- **Dielectric Withstanding Voltage:** 100 V<sub>RMS</sub>
- **Different electrical values available upon request**

### FEATURES

- **Ideal** for geophysical applications in environments ≤ 200°C
- **Compact**, low profile, ideal for automatic placement
- **Terminations:** HMP solder
- **Welded Internal Connections** - no reflow risk
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Multiple Configurations:** series, parallel, transformer, dual inductor
- **Other termination finishes available**

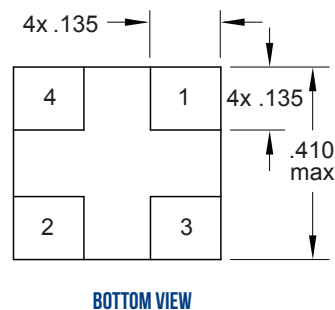
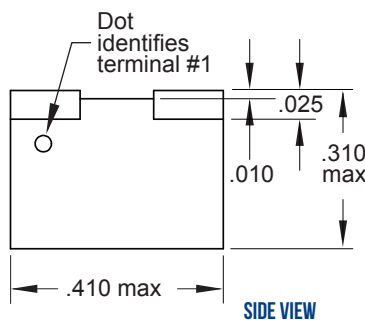
### APPLICATIONS

- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- Common mode chokes
- SEPIC converters
- Isolation transformers

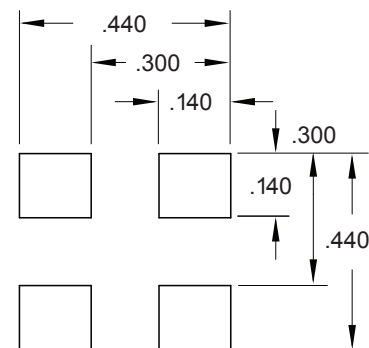


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

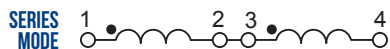
MARKINGS: LASER ETCH OR INK



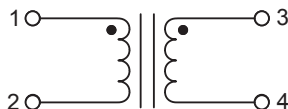
IN	MM
0.440	11.18
0.410	10.41
0.310	7.87
0.300	7.62
0.140	3.56
0.135	3.43
0.025	0.64
0.010	0.25



#### TYPICAL USER CONNECTIONS



#### SCHEMATIC



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DATA TABLE

Vanguard P/N	Series Inductance (mH ±10%)	Series Rated DC Current (mA)	Series DCR max (Ohms)	Parallel Inductance (mH ±10%)	Parallel Rated DC Current (mA)	Parallel DCR max (Ohms)	Package A-
XT60003	0.10	780	0.37	0.025	1560	0.093	3
XT60007	0.25	530	0.82	0.062	1060	0.205	3
XT60011	0.50	380	1.62	0.125	760	0.405	3
XT60015	0.75	310	2.50	0.187	620	0.625	3
XT60019	1.00	270	3.37	0.250	540	0.843	3
XT60023	2.00	190	6.75	0.500	380	1.690	3
XT60027	3.00	160	10.12	0.750	320	2.530	3
XT60031	5.00	120	16.87	1.250	240	4.220	3
XT60035	7.50	100	25.37	1.875	200	6.350	3
XT60039	10.00	80	33.75	2.500	160	8.440	3

Inductance measured at 10 kHz, 0.1 V<sub>RMS</sub>

**CUSTOM DESIGNS & MODIFICATIONS:**

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

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