



XT60000 SERIES PACKAGE A1



+200°C

Inductance Range (mH)	DCR Max (Ohms)	Current Rating (mA)
0.025 to 10	0.4 to 128	20 to 600

ELECTRICAL SPECIFICATIONS

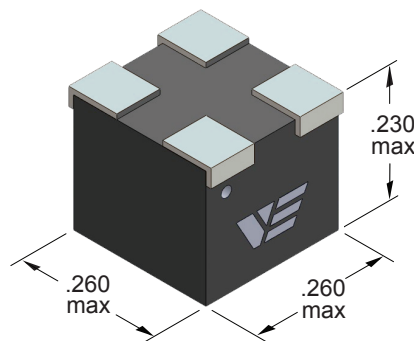
- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -45°C to +205°C
- **Temperature Rise:** < 30°C
- **Inductance at rated DC:** ≥70% of initial
- **Dielectric Withstanding Voltage:** 100 V_{RMS}
- **Different electrical values available upon request**

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**

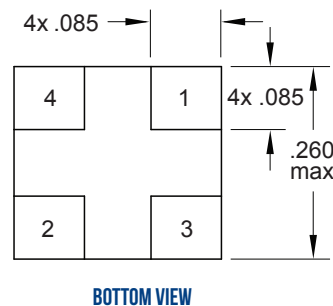
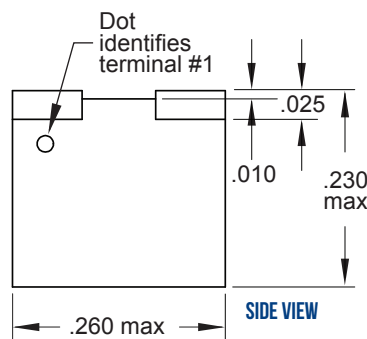
APPLICATIONS

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

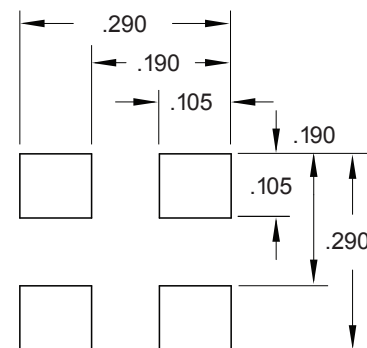


THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

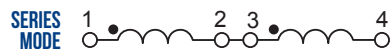
MARKINGS: LASER ETCH OR INK



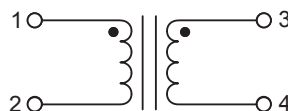
IN	MM
0.290	7.37
0.260	6.60
0.230	5.05
0.190	4.83
0.105	2.67
0.085	2.16
0.025	0.64
0.010	0.25



TYPICAL USER CONNECTIONS



SCHEMATIC



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DATA TABLE

Vanguard Part Number	Inductance Ref (mH ±10%)	Series Rated DC Current (mA)	Series DCR max (Ohms)	Parallel Inductance (mH ±10%)	Parallel Rated DC Current (mA)	Parallel DC max (Ohms)	Package A-
XT60001	0.100	300	1.60	0.025	600	0.400	1
XT60005	0.250	200	3.11	0.062	400	0.778	1
XT60009	0.500	150	6.14	0.125	300	1.535	1
XT60013	0.750	120	9.45	0.187	240	2.363	1
XT60017	1.000	95	12.85	0.250	190	3.213	1
XT60021	2.000	75	25.60	0.500	150	6.400	1
XT60025	3.000	60	38.40	0.750	120	9.600	1
XT60029	5.000	45	64.00	1.250	90	16.000	1
XT60033	7.500	30	96.00	1.875	60	24.000	1
XT60037	10.000	20	128.00	2.500	40	32.000	1

Inductance measured at 10kHz, 0.1 Vrms

CUSTOM DESIGNS & MODIFICATIONS:

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

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