



XT60000 SERIES PACKAGE A5



+200°C

Inductance Range (uH)	DCR max (Ohms)	Current Rating (mA)
2.75 to 10000	0.005 to 15.20	150 to 1200

ELECTRICAL SPECIFICATIONS

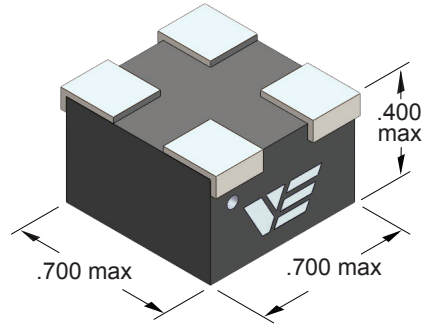
- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -45°C to +205°C
- **Temperature Rise:** < 30°C
- **Inductance at rated DC:** ≥70% of initial
- **Dielectric Withstanding Voltage:** 100 V_{RMS}
- **Different electrical values available upon request**

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**

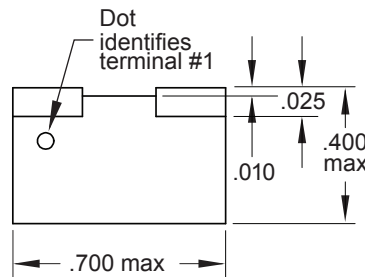
APPLICATIONS

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

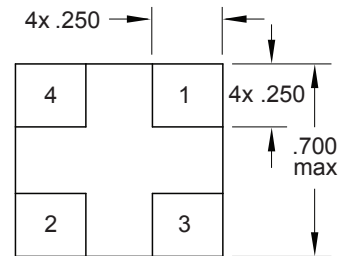


THRU-HOLE & GULL-WING PACKAGES ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

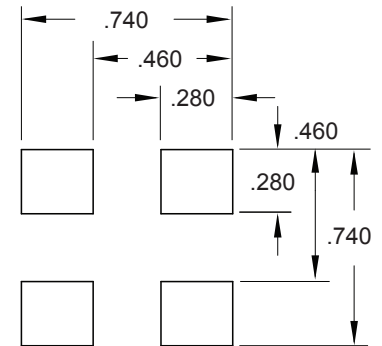


SIDE VIEW



BOTTOM VIEW

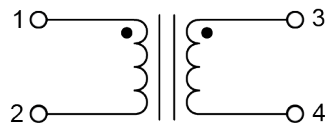
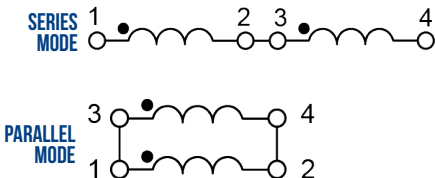
IN	MM
0.740	18.80
0.700	17.78
0.460	11.68
0.400	10.16
0.280	7.11
0.250	6.35
0.025	0.64
0.010	0.25



RECOMMENDED MOUNTING PAD CIRCUIT SIDE

TYPICAL USER CONNECTIONS

SCHEMATIC



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DATA TABLE

Vanguard P/N	Series Inductance (uH ±12%)	Series Rated DC Current (mA)	Series DCR max (Ohms)	Parallel Inductance (uH ±12%)	Parallel Rated DC Current (mA)	Parallel DCR max (Ohms)	Package A-
XT60041	11	4800	0.024	2.76	9600	0.006	5
XT60042	18	3700	0.036	4.50	7400	0.009	5
XT60043	27	3000	0.052	6.75	6000	0.013	5
XT60044	38	2500	0.076	9.50	5000	0.019	5
XT60045	44	2400	0.084	11.00	4800	0.021	5
XT60046	100	1600	0.20	25.00	3200	0.050	5
XT60047	200	1100	0.46	50.00	2200	0.115	5
XT60048	400	800	0.84	100.00	1600	0.210	5
XT60049	500	710	1.16	125.00	1420	0.290	5
XT60050	750	570	1.76	187.50	1140	0.440	5
XT60051	1000	500	2.00	250.00	1000	0.500	5
XT60052	2000	350	4.32	500.00	700	1.075	5
XT60053	3000	290	6.64	750.00	580	1.660	5
XT60054	4000	250	7.68	1000.00	500	1.920	5
XT60055	7500	180	16.20	1875.00	360	4.050	5
XT60056	10000	150	18.80	2500.00	300	4.700	5
XT60057	11	6000	0.020	2.75	12000	0.005	5
XT60058	18	4600	0.032	4.50	9200	0.008	5
XT60059	27	3700	0.044	6.75	7400	0.011	5
XT60060	38	3100	0.064	9.50	6200	0.016	5
XT60061	44	3000	0.068	11.00	6000	0.017	5
XT60062	100	2000	0.152	25.00	4000	0.038	5
XT60063	200	1300	0.340	50.00	2600	0.085	5
XT60064	400	890	0.600	100.00	1780	0.150	5
XT60065	500	800	0.848	125.00	1600	0.212	5
XT60066	750	700	1.32	187.50	1400	0.330	5
XT60067	1000	600	1.52	250.00	1200	0.380	5
XT60068	2000	430	3.40	500.00	860	0.850	5
XT60069	3000	360	5.20	750.00	720	1.300	5
XT60070	4000	310	6.08	1000.00	620	1.520	5
XT60071	7500	220	13.20	1875.00	440	3.300	5
XT60072	10000	180	15.20	2500.00	360	3.800	5

Inductance measured at 10 kHz, 0.1 V_{RMS}

CUSTOM DESIGNS & MODIFICATIONS:

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

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