



XT60000 SERIES PACKAGE A0



+200°C

Inductance Range (uH)	DCR max (Ohms)	Current Rating (mA)
0.020 to 103.44	0.005 to 2.40	250 to 6600

ELECTRICAL SPECIFICATIONS

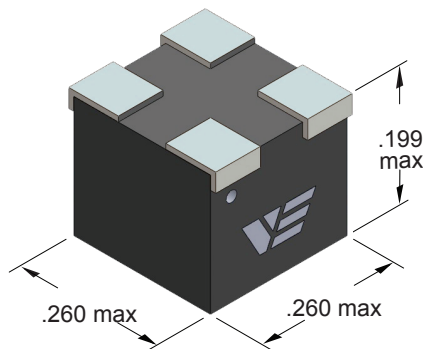
- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -45°C to +205°C
- **Temperature Rise:** < 30°C
- **Inductance at rated DC:** ≥70% of initial
- **Dielectric Withstanding Voltage:** 100 V_{RMS}
- **Different electrical values available upon request**

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**

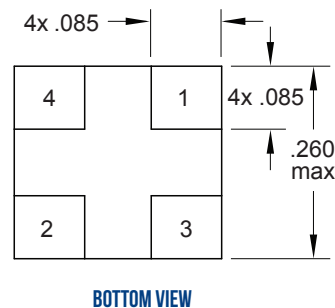
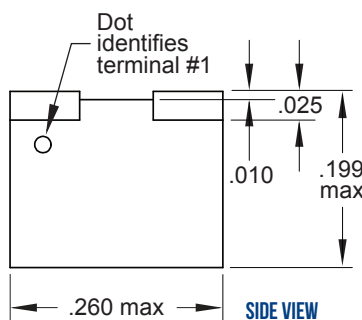
APPLICATIONS

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

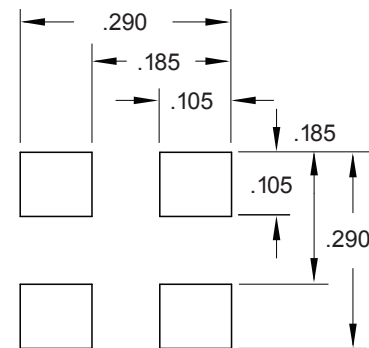


THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

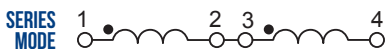


IN	MM
0.290	7.37
0.260	6.60
0.199	5.05
0.185	4.70
0.105	2.67
0.085	2.16
0.025	0.64
0.010	0.25

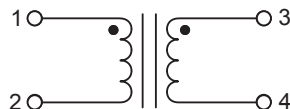


RECOMMENDED MOUNTING PAD CIRCUIT SIDE

TYPICAL USER CONNECTIONS



SCHEMATIC





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-
XT60073	0.08	3300	0.020	0.020	6600	0.005	0
XT60074	0.14	2800	0.024	0.035	5600	0.006	0
XT60075	0.22	2400	0.036	0.055	4800	0.009	0
XT60076	0.44	1800	0.056	0.110	3600	0.014	0
XT60077	0.56	1500	0.072	0.140	3000	0.018	0
XT60078	0.60	2300	0.036	0.150	4600	0.009	0
XT60079	0.86	1900	0.048	0.215	3800	0.012	0
XT60080	1.36	1900	0.048	0.340	3800	0.012	0
XT60081	1.86	1800	0.052	0.465	3600	0.013	0
XT60082	2.44	1700	0.060	0.610	3400	0.015	0
XT60083	3.33	1500	0.064	0.833	3000	0.016	0
XT60084	4.32	1200	0.080	1.08	2400	0.020	0
XT60085	5.52	1000	0.120	1.38	2000	0.030	0
XT60086	8.24	950	0.160	2.06	1900	0.040	0
XT60087	9.80	850	0.240	2.45	1700	0.060	0
XT60088	11.48	800	0.260	2.87	1600	0.065	0
XT60089	13.32	750	0.280	3.33	1500	0.070	0
XT60090	17.40	650	0.360	4.35	1300	0.090	0
XT60091	19.65	600	0.400	4.91	1200	0.100	0
XT60092	22.04	550	0.500	5.51	1100	0.125	0
XT60093	27.20	500	0.560	6.80	1000	0.140	0
XT60094	32.92	450	0.600	8.23	900	0.150	0
XT60095	49.60	400	0.900	12.40	800	0.225	0
XT60096	61.20	350	1.30	15.30	700	0.325	0
XT60097	78.60	300	1.52	19.65	600	0.380	0
XT60098	93.04	280	2.20	23.27	560	0.550	0
XT60099	103.44	250	2.40	25.86	500	0.600	0

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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