

XT62100 SERIES
PACKAGE A1

+200°C

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -40°C to +200°C
- **Storage Temperature:** -45°C to +205°C
- **Temperature Rise:** < 30°C
- **Inductance at rated DC:** $\geq 70\%$ of initial
- **Dielectric Withstanding Voltage:** 500 V_{RMS}
- **Overload Current:** 1.5 times rated current
- **Different electrical values available upon request**

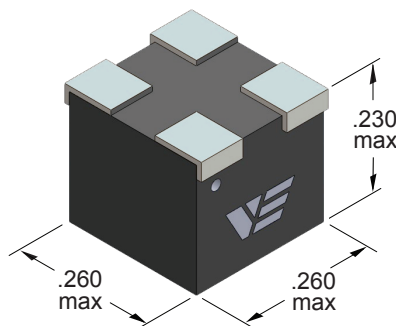
FEATURES

- **Ideal** for geophysical applications in environments $\leq 200^\circ\text{C}$
- **Compact**, low profile, ideal for automatic placement
- **Terminations:** High temperature solder
- **Welded Internal Connections** - no reflow risk
- **Moisture, Shock and Immersion Resistant**
- **Self Shielding**
- **Other termination finishes available**

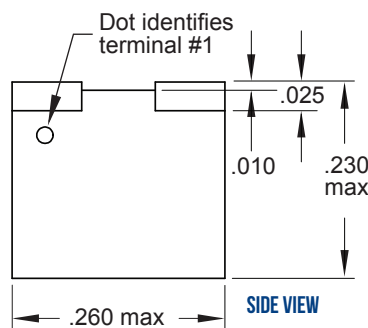
APPLICATIONS

- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- SEPIC converters

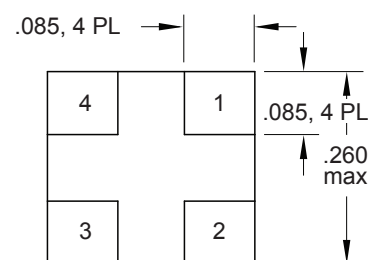
Inductance Range (μH)	DCR max (Ohms)	Current Rating (mA)
15 to 3000	0.11 to 24.7	59 to 820

THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

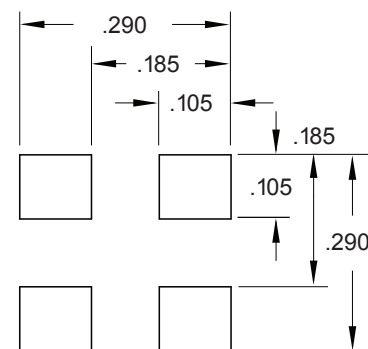


SIDE VIEW



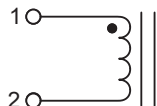
BOTTOM VIEW

IN	MM
0.290	7.37
0.260	6.60
0.230	5.84
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

SCHEMATIC

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DATA TABLE

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
XT62101	15	0.11	820
XT62102	18	0.12	750
XT62103	20	0.15	720
XT62104	22	0.16	690
XT62105	25	0.17	650
XT62106	27	0.18	610
XT62107	30	0.22	580
XT62108	33	0.25	550
XT62109	39	0.27	520
XT62110	47	0.30	460
XT62111	50	0.32	440
XT62112	56	0.33	430
XT62113	68	0.36	390
XT62114	75	0.38	370
XT62115	82	0.39	350
XT62116	100	0.71	320
XT62117	120	0.78	290
XT62118	150	0.88	260
XT62119	180	1.20	240
XT62120	200	1.25	230

Inductance measured at 10 kHz, 0.1 V_{RMS}

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
XT62121	220	1.30	220
XT62122	250	1.60	200
XT62123	270	1.80	190
XT62124	300	1.90	180
XT62125	330	2.0	170
XT62126	350	2.50	165
XT62127	390	2.8	160
XT62128	470	3.0	140
XT62129	500	3.1	135
XT62130	560	3.3	130
XT62131	680	4.7	120
XT62132	750	5.1	115
XT62133	820	5.2	110
XT62134	1000	7.3	100
XT62135	1200	8.0	93
XT62136	1500	11.0	83
XT62137	1800	12.1	75
XT62138	2000	15.0	70
XT62139	2200	16.8	68
XT62140	2700	18.6	62
XT62141	3000	24.7	59

CUSTOM DESIGNS & MODIFICATIONS:

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

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