



XT62300 SERIES PACKAGE A3



+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**

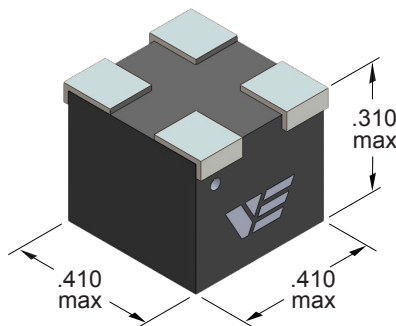
FEATURES

- **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

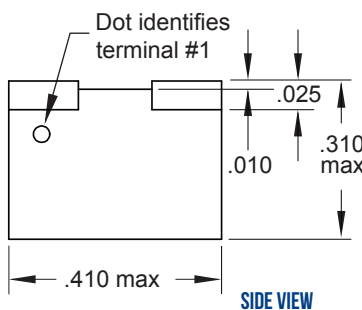
- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- SEPIC converters

Inductance Range (uH)	DCR max (Ohms)	Current Rating (mA)
15 to 3000	0.035 to 7.72	140 to 2000

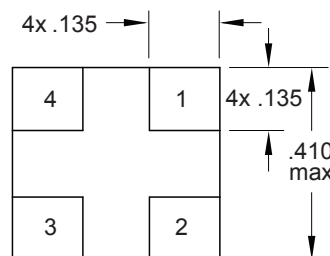


THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

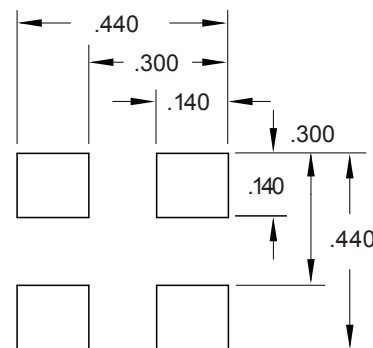


SIDE VIEW



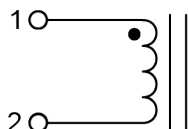
BOTTOM VIEW

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



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)
XT62301	15	0.035	2000
XT62302	18	0.047	1900
XT62303	20	0.051	1700
XT62304	22	0.055	1600
XT62305	25	0.064	1550
XT62306	27	0.074	1500
XT62307	30	0.078	1420
XT62308	33	0.083	1350
XT62309	39	0.088	1300
XT62310	47	0.119	1100
XT62311	50	0.125	1050
XT62312	56	0.131	1000
XT62313	68	0.188	950
XT62314	75	0.203	920
XT62315	82	0.218	890
XT62316	100	0.284	800
XT62317	120	0.312	730
XT62318	150	0.429	650
XT62319	180	0.478	590
XT62320	200	0.501	565

Inductance measured at 10 kHz, 0.1 V_{RMS}

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
XT62321	220	0.524	540
XT62322	250	0.630	510
XT62323	270	0.737	480
XT62324	300	0.780	450
XT62325	330	0.824	430
XT62326	350	0.977	415
XT62327	390	1.13	400
XT62328	470	1.25	360
XT62329	500	1.30	340
XT62330	560	1.35	330
XT62331	680	1.88	300
XT62332	750	1.97	290
XT62333	820	2.07	280
XT62334	1000	2.88	250
XT62335	1200	3.15	230
XT62336	1500	4.35	200
XT62337	1800	4.74	180
XT62338	2000	5.69	175
XT62339	2200	6.64	170
XT62340	2700	7.38	150
XT62341	3000	7.72	140

CUSTOM DESIGNS & MODIFICATIONS:

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

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