

XT62400 SERIES
PACKAGE A4

+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**

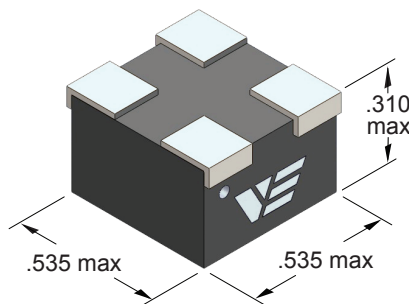
FEATURES

- **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**

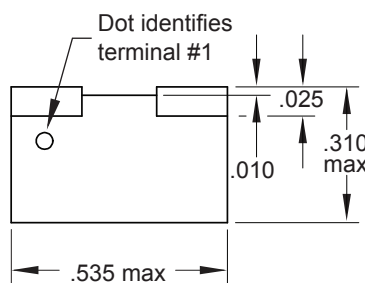
APPLICATIONS

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

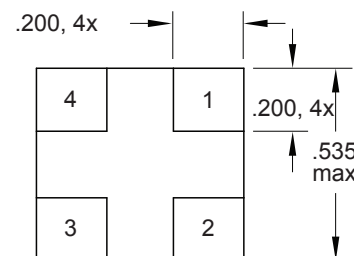
Inductance Range (uH)	DCR max (Ohms)	Current Rating (mA)
15 to 3000	0.0221 to 4.93	180 to 2760

THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

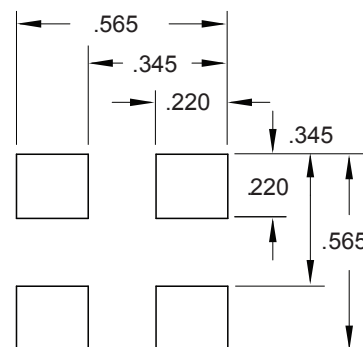


SIDE VIEW



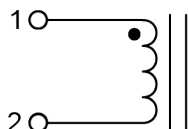
BOTTOM VIEW

IN	MM
0.565	14.35
0.535	13.59
0.345	8.76
0.310	7.87
0.220	5.59
0.200	5.08
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)
XT62401	15	0.0221	2760
XT62402	18	0.0289	2300
XT62403	20	0.0349	2250
XT62404	22	0.0400	2200
XT62405	25	0.0422	2100
XT62406	27	0.0444	2000
XT62407	30	0.0466	1900
XT62408	33	0.0489	1800
XT62409	39	0.0676	1600
XT62410	47	0.0760	1400
XT62411	50	0.089	1350
XT62412	56	0.102	1300
XT62413	68	0.113	1200
XT62414	75	0.118	1150
XT62415	82	0.123	1100
XT62416	100	0.174	1000
XT62417	120	0.192	920
XT62418	150	0.268	830
XT62419	180	0.289	760
XT62420	200	0.351	720

Inductance measured at 10 kHz, 0.1 V_{RMS}

Vanguard P/N	Inductance (uH $\pm 10\%$)	DCR max (Ohms)	Rated DC Current (mA)
XT62421	220	0.413	680
XT62422	250	0.434	650
XT62423	270	0.456	620
XT62424	300	0.480	590
XT62425	330	0.505	560
XT62426	350	0.599	530
XT62427	390	0.693	510
XT62428	470	0.755	470
XT62429	500	0.887	450
XT62430	560	1.02	430
XT62431	680	1.13	390
XT62432	750	1.34	370
XT62433	820	1.56	350
XT62434	1000	1.75	320
XT62435	1200	1.89	290
XT62436	1500	2.70	260
XT62437	1800	2.96	240
XT62438	2000	3.11	220
XT62439	2200	3.27	210
XT62440	2700	4.59	190
XT62441	3000	4.93	180

CUSTOM DESIGNS & MODIFICATIONS:

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

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