

S62400 SERIES
PACKAGE A4

ALL PARTS AVAILABLE AS CLASS S OR CLASS B

MIL-STD-981

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

ELECTRICAL SPECIFICATIONS

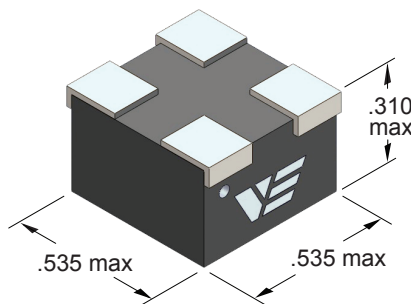
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 30°C
- **Inductance at rated DC:** ≥ 70% of initial
- **Dielectric Withstanding Voltage:** 500 V_{RMS}
- **Delta L:** ±2% over operating temperature range
- **Low Outgassing:** TML <1%
- **Overload Current:** 1.5 times rated current
- **Different electrical values available upon request**

FEATURES

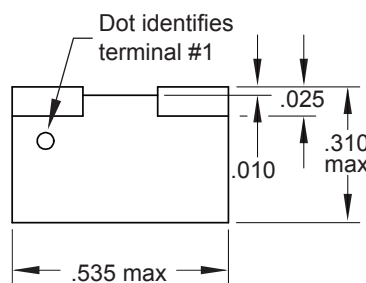
- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-STD-981** specifications
- **Terminations:** Tin-lead
- **Welded Internal Connections**
- **Moisture, Shock and Immersion Resistant**
- **Self Shielding**
- **Other termination finishes available**

APPLICATIONS

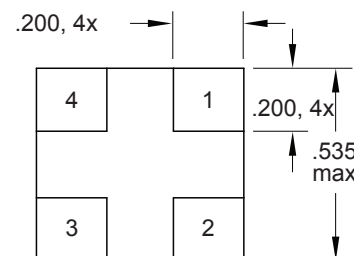
- Filter inductors
- Power supplies
- Ripple suppressors
- DC/DC converters
- SEPIC converters

THRU-HOLE &
GULL-WING PACKAGES
ALSO AVAILABLE

MARKINGS: LASER ETCH OR INK

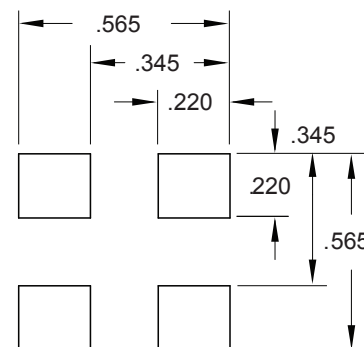


SIDE VIEW



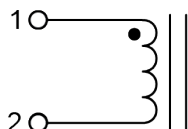
BOTTOM VIEW

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)
S62401	15	0.0221	2760
S62402	18	0.0289	2300
S62403	20	0.0349	2250
S62404	22	0.0400	2200
S62405	25	0.0422	2100
S62406	27	0.0444	2000
S62407	30	0.0466	1900
S62408	33	0.0489	1800
S62409	39	0.0676	1600
S62410	47	0.0760	1400
S62411	50	0.089	1350
S62412	56	0.102	1300
S62413	68	0.113	1200
S62414	75	0.118	1150
S62415	82	0.123	1100
S62416	100	0.174	1000
S62417	120	0.192	920
S62418	150	0.268	830
S62419	180	0.289	760
S62420	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)
S62421	220	0.413	680
S62422	250	0.434	650
S62423	270	0.456	620
S62424	300	0.480	590
S62425	330	0.505	560
S62426	350	0.599	530
S62427	390	0.693	510
S62428	470	0.755	470
S62429	500	0.887	450
S62430	560	1.02	430
S62431	680	1.13	390
S62432	750	1.34	370
S62433	820	1.56	350
S62434	1000	1.75	320
S62435	1200	1.89	290
S62436	1500	2.70	260
S62437	1800	2.96	240
S62438	2000	3.11	220
S62439	2200	3.27	210
S62440	2700	4.59	190
S62441	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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