



PL4 SERIES PACKAGE A4



COTS+

ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -55°C to +125°C
- **Temperature Rise @ 90°C:** < 30°C
- **Inductance drop at rated DC:** < 30%
- **Dielectric Withstanding Voltage:** 500_{VAC}
- **Resistance to Soldering Heat:** 275°C for 10 secs
- **Different electrical values available upon request**

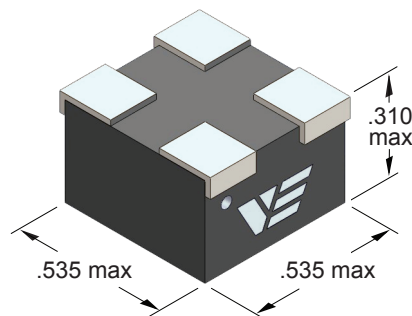
FEATURES

- **Compact**, low profile, ideal for automatic placement
- **Temperature stable:** ≤ 2% ΔL over operating range
- **Terminations:** Tin-lead
- **Magnetically shielded**
- **Welded internal connections**, transfer molded package
- **Moisture, Shock and Immersion Resistant**
- **Tape and Reel packaging available**

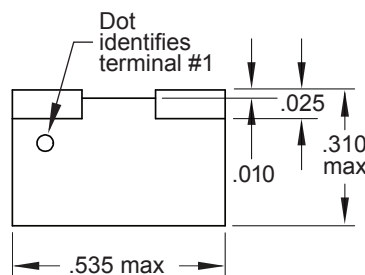
APPLICATIONS

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

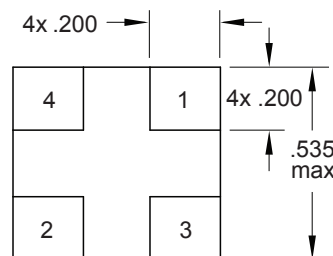
Inductance Range (uH)	DCR (Ohms)	Current Rating (mA)
5.0 to 1500	0.030 to 2.68	135 to 2360



MARKINGS: LASER ETCH OR INK

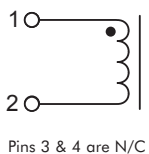


SIDE VIEW

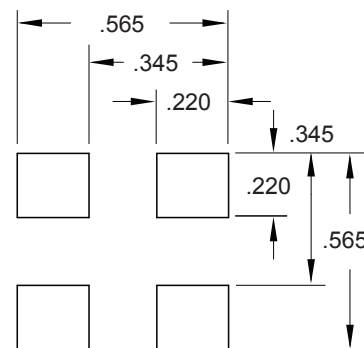


BOTTOM VIEW

SCHEMATIC



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

PL4 SERIES





DATA TABLE

Vanguard P/N	Inductance $\pm 10\%$ (μH)	DCR max (Ohms)	Rated Current (mA)
PL4-01	5.0	0.030	2360
PL4-02	5.6	0.033	2160
PL4-03	6.8	0.036	2000
PL4-04	8.2	0.039	1860
PL4-05	10	0.044	1630
PL4-06	12	0.047	1530
PL4-07	15	0.052	1370
PL4-08	18	0.058	1240
PL4-09	20	0.077	1180
PL4-10	22	0.080	1130
PL4-11	25	0.087	1040
PL4-12	27	0.090	1000
PL4-13	30	0.093	960
PL4-14	33	0.096	930
PL4-15	39	0.106	840
PL4-16	47	0.113	765
PL4-17	50	0.117	745
PL4-18	56	0.123	700
PL4-19	68	0.173	635
PL4-20	75	0.182	605
PL4-21	82	0.190	580
PL4-22	100	0.210	520
PL4-23	120	0.224	480
PL4-24	150	0.315	425
PL4-25	180	0.340	395
PL4-26	200	0.460	370
PL4-27	220	0.484	350
PL4-28	250	0.510	330
PL4-29	270	0.670	315
PL4-30	300	0.700	300
PL4-31	330	0.73	290
PL4-32	350	0.75	280
PL4-33	390	0.98	265
PL4-34	470	1.07	245
PL4-35	500	1.10	235
PL4-36	560	1.17	220
PL4-37	680	1.32	200
PL4-38	750	1.40	190
PL4-39	820	1.46	183
PL4-40	1000	2.18	165
PL4-41	1200	2.40	150
PL4-42	1500	2.68	135

Inductance measured at 10 kHz, 0.1 Vrms

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