



PL3 SERIES PACKAGE A3



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**

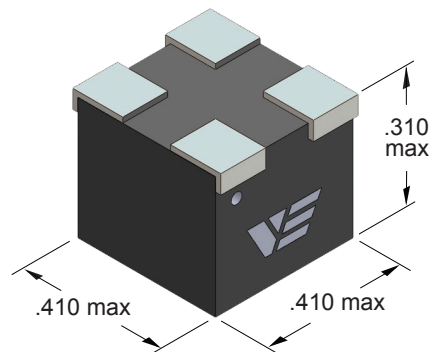
FEATURES

- **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**

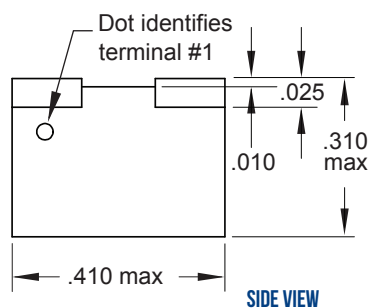
APPLICATIONS

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

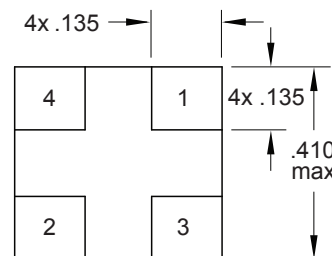
Inductance Range (uH)	DCR (Ohms)	Current Rating (mA)
5.0 to 1500	0.044 to 5.0	100 to 1750



MARKINGS: LASER ETCH OR INK

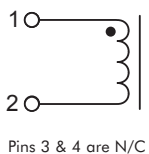


SIDE VIEW

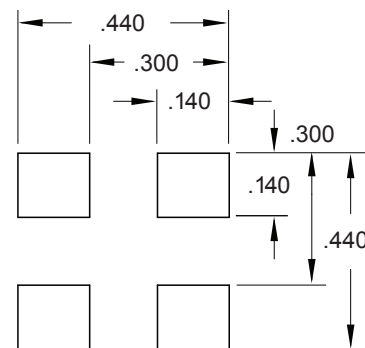


BOTTOM VIEW

SCHEMATIC



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

PL3 SERIES





DATA TABLE

Vanguard P/N	Inductance $\pm 10\%$ (μH)	DCR max (Ohms)	Rated Current (mA)
PL3-01	5.0	0.044	1750
PL3-02	5.6	0.048	1590
PL3-03	6.8	0.065	1450
PL3-04	8.2	0.070	1320
PL3-05	10	0.080	1150
PL3-06	12	0.100	1000
PL3-07	15	0.110	975
PL3-08	18	0.115	875
PL3-09	20	0.120	835
PL3-10	22	0.153	795
PL3-11	25	0.160	760
PL3-12	27	0.166	730
PL3-13	30	0.173	700
PL3-14	33	0.180	670
PL3-15	39	0.240	610
PL3-16	47	0.25	566
PL3-17	50	0.26	548
PL3-18	56	0.45	516
PL3-19	68	0.48	462
PL3-20	75	0.49	440
PL3-21	82	0.51	418
PL3-22	100	0.80	381
PL3-23	120	0.85	350
PL3-24	150	0.90	313
PL3-25	180	1.05	283
PL3-26	200	1.10	270
PL3-27	220	1.35	258
PL3-28	250	1.40	243
PL3-29	270	1.50	234
PL3-30	300	1.60	219
PL3-31	330	1.70	211
PL3-32	350	1.75	204
PL3-33	390	1.80	193
PL3-34	470	1.90	177
PL3-35	500	2.5	170
PL3-36	560	2.7	160
PL3-37	680	2.9	146
PL3-38	750	3.0	140
PL3-39	820	3.2	135
PL3-40	1000	4.0	120
PL3-41	1200	4.4	110
PL3-42	1500	5.0	100

Inductance measured at 10 kHz, 0.1 Vrms

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