



PL 12 SERIES

HIGH CURRENT



RoHS & XT VERSIONS AVAILABLE

COTS +

Inductance Range (uH)	DCR (Ohms)	I _{SAT} 2/(A)
1.0 to 470.0	.009 to 1.27	0.5 to 9.0

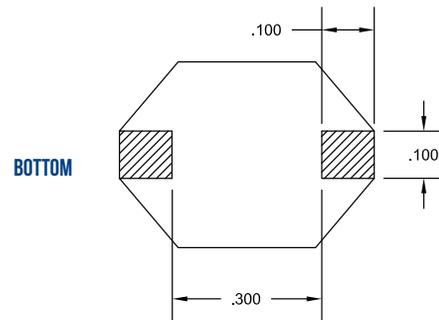
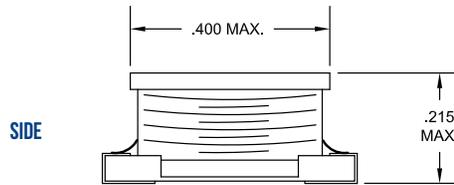
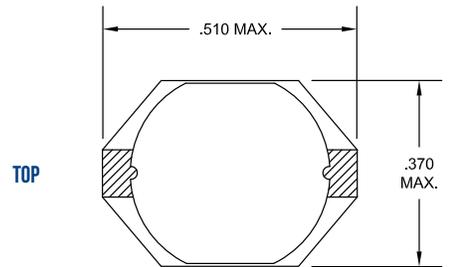
ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -40°C to +85°C
- **Storage Temperature:** -45°C to +90°C
- **Temperature Rise:** 15°C @ I_{RMS}
- **Inductance Dropat rated DC:** 10% @ I_{SAT}
- **Different electrical values available upon request**

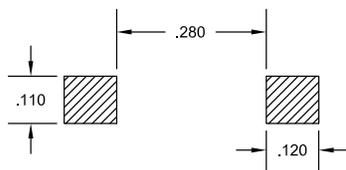
FEATURES

- **Compact**, low profile, ideal for automatic placement
- **Terminations:** Tin-lead
- **Other termination finishes available**
- **Order to VE** part number

MARKINGS: LASER ETCH OR INK



RECOMMENDED PAD MOUNTING



Tolerance unless otherwise specified ±.0101
Measurements are in inches

CUSTOM DESIGNS & MODIFICATIONS:

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





Vanguard P/N	Inductance <u>1/</u> ± 20% (uH)	DCR max (Ohms)	I _{SAT} <u>2/</u> (A)	I _{RMS} <u>3/</u> (A _{RMS})
PL12-01	1.0	.009	9.0	6.8
PL12-02	1.0	.009	9.0	6.8
PL12-03	10.0	.038	3.8	3.9
PL12-04	10.0	.038	3.8	3.9
PL12-05	100.0	.28	1.2	1.3
PL12-06	1.5	.01	8.0	6.4
PL12-07	1.5	.01	8.0	6.4
PL12-08	15.0	.046	3.0	3.1
PL12-09	15.0	.046	3.0	3.1
PL12-10	150.0	.40	1.0	1.0
PL12-11	150.0	.40	1.0	1.0
PL12-12	2.2	.012	7.0	6.1
PL12-13	2.2	.012	7.0	6.1
PL12-14	22.0	.085	2.6	2.7
PL12-15	22.0	.085	2.6	2.7
PL12-16	220.0	.61	0.8	0.8
PL12-17	220.0	.61	0.8	0.8
PL12-18	3.3	.015	6.4	5.4
PL12-19	3.3	.015	6.4	5.4
PL12-20	33.0	.10	2.0	2.1
PL12-21	33.0	.10	2.0	2.1
PL12-22	330.0	.102	0.6	0.6
PL12-23	4.7	.018	5.4	4.8
PL12-24	4.7	.018	5.4	4.8
PL12-25	47.0	.14	1.6	1.8
PL12-26	47.0	.14	1.6	1.8
PL12-27	470.0	1.27	0.5	0.5
PL12-28	470.0	1.27	0.5	0.5
PL12-29	6.8	.027	4.6	4.4
PL12-30	6.8	.027	4.6	4.4
PL12-31	68.0	.20	1.4	1.5

1/ Inductance tested @ 100 KHz, 0.1 V_{RMS}

3/ ΔT=15°C rise TYP. @ I_{rms}

2/ Inductance drop = 10% TYP. at rated Isat

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