



# PL24/PL25 SERIES

## SHIELDED SURFACE MOUNT



COTS+

### ELECTRICAL SPECIFICATIONS

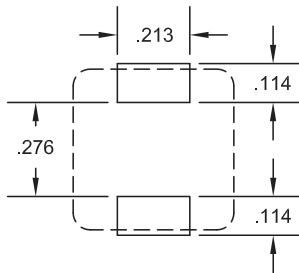
- **Operating Temperature:** -55°C to +125°C
- **Storage Temperature:** -60°C to +135°C
- **Temperature Rise @ 90°C:** < 40°C
- **Inductance at rated DC:** > 70% of initial
- **Dielectric Withstanding Voltage:** 100 V<sub>AC</sub>
- **Different electrical values available upon request**

### FEATURES

- **Compact**, low profile, ideal for automatic placement
- Built to meet **MIL-PRF-27** specifications
- **Terminations:** Tin-lead
- **Moisture, Shock and Immersion Resistant**
- **Magnetically Shielded**
- **Other termination finishes available**

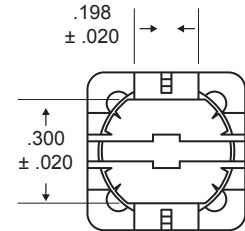
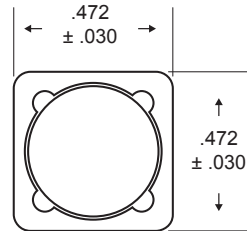
### APPLICATIONS

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

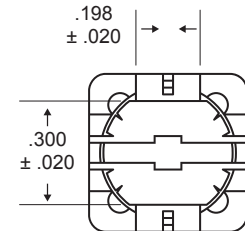
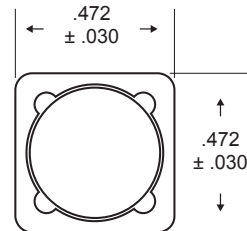
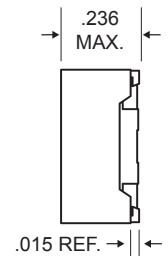


PL24 / PL25  
RECOMMENDED PAD LAYOUT

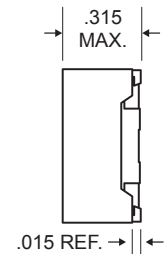
Inductance Range (uH)	DCR max (Ohms)	Current Rating (mA)
2.0 to 1000.00	0.015 to 2.000	.400 to 8500



## PL24 SERIES



## PL25 SERIES



# PL24/PL25 SERIES **COTS+**





Vanguard P/N	Inductance ± 20% (uH)	Test Freq (KHz)	DCR max (Ohms)	Rated Current (Amps)
PL24-01	2.2	100	0.020	7.00
PL24-02	3.5	100	0.030	5.50
PL24-03	4.7	100	0.040	5.00
PL24-04	6.8	100	0.050	4.50
PL24-05	10.0	100	0.055	4.00
PL24-06	12.0	1.0	0.060	3.50
PL24-07	15.0	1.0	0.065	3.30
PL24-08	18.0	1.0	0.070	3.00
PL24-09	22.0	1.0	0.075	2.80
PL24-10	27.0	1.0	0.085	2.30
PL24-11	33.0	1.0	0.095	2.10
PL24-12	39.0	1.0	0.105	2.00
PL24-13	47.0	1.0	0.115	1.80
PL24-14	56.0	1.0	0.135	1.60
PL24-15	68.0	1.0	0.170	1.50
PL24-16	82.0	1.0	0.190	1.40
PL24-17	100.0	1.0	0.210	1.30
PL24-18	120.0	1.0	0.250	1.10
PL24-19	150.0	1.0	0.300	1.00
PL24-20	180.0	1.0	0.350	0.90
PL24-21	220.0	1.0	0.420	0.80
PL24-22	270.0	1.0	0.510	0.75
PL24-23	330.0	1.0	0.600	0.70
PL24-24	390.0	1.0	0.750	0.65
PL24-25	470.0	1.0	0.820	0.60
PL24-26	560.0	1.0	1.000	0.55
PL24-27	680.0	1.0	1.300	0.50
PL24-28	820.0	1.0	1.650	0.45
PL24-29	1000.0	1.0	2.000	0.40

**CUSTOM DESIGNS & MODIFICATIONS:**

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

PL24/PL25 SERIES





DATA TABLE

Vanguard P/N	Inductance ± 20% (uH)	Test Freq (KHz)	DCR max (Ohms)	Rated Current (Amps)
PL25-01	2.2	100	0.015	8.50
PL25-02	3.3	100	0.018	7.50
PL25-03	4.7	100	0.022	6.80
PL25-04	6.8	100	0.030	6.20
PL25-05	10.0	100	0.040	5.40
PL25-06	12.0	1.0	0.045	4.90
PL25-07	15.0	1.0	0.048	4.50
PL25-08	18.0	1.0	0.052	3.90
PL25-09	22.0	1.0	0.055	3.60
PL25-10	27.0	1.0	0.060	3.40
PL25-11	33.0	1.0	0.065	3.00
PL25-12	39.0	1.0	0.080	2.80
PL25-13	47.0	1.0	0.100	2.50
PL25-14	56.0	1.0	0.120	2.30
PL25-15	68.0	1.0	0.140	2.10
PL25-16	82.0	1.0	0.170	1.90
PL25-17	100.0	1.0	0.220	1.70
PL25-18	120.0	1.0	0.250	1.60
PL25-19	150.0	1.0	0.320	1.40
PL25-20	180.0	1.0	0.360	1.30
PL25-21	220.0	1.0	0.390	1.20
PL25-22	270.0	1.0	0.520	1.10
PL25-23	330.0	1.0	0.620	1.00
PL25-24	390.0	1.0	0.750	0.90
PL25-25	470.0	1.0	0.980	0.80
PL25-26	560.0	1.0	1.150	0.75
PL25-27	680.0	1.0	1.220	0.70
PL25-28	820.0	1.0	1.400	0.65
PL25-29	1000.0	1.0	1.540	0.62

**CUSTOM DESIGNS & MODIFICATIONS:**

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

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