



PL 10 SERIES

SELF-LEADED TOROIDS



RoHS & XT VERSIONS AVAILABLE

COTS+

Inductance Range (mH)	DCR max (Ohms)	Rated Current
4.5 to 10000	0.002 to 1.750	0.34 to 31.4

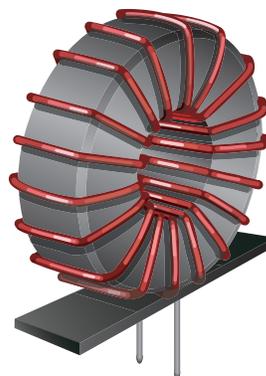
ELECTRICAL SPECIFICATIONS

- **Operating Temperature:** -25°C to +130°C
- **Storage Temperature:** -30°C to +135°C
- **Temperature Rise:** 30°C
- **Inductance at rated DC:** ± 15%
- **Different electrical values available upon request**

FEATURES

- **Terminations:** Tin-lead
- **Other termination finishes available**

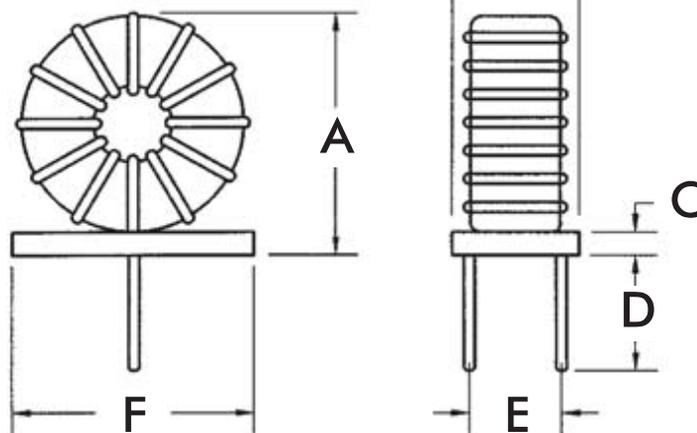
MARKINGS: LASER ETCH OR INK



Part Size	A max (in.)	B max (in.)	C ± .010 (in.)	D min (in.)	E ± .010 (in.)	F max (in.)
100	0.65	0.30	0.030	0.50	0.200	0.62
200	0.725	0.50	0.030	0.50	0.400	0.70
300	0.94	0.60	0.030	0.50	0.450	0.90
400	1.1	0.60	0.030	0.50	0.400	1.1
500	1.4	0.72	0.047	0.50	0.500	1.4
600	1.8	0.72	0.047	0.50	0.500	1.8

PROFILE

SIDE



AVAILABLE WITHOUT BASE - ADD "-NB" TO PART NUMBER

CUSTOM DESIGNS & MODIFICATIONS:

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





PL10-100

ENERGY RATING: 75 μ J

SIZE 100

Vanguard P/N	Inductance @ 0 Amps DC (uH \pm 15%)	Rated Current max (DCA)	Current @ 10% Δ L min (DCA)	Current @ 30% Δ L min (DCA)	Current @ 50% Δ L min (DCA)	DCR max (Ohms)	Lead Size
PL10-101	4.5	5.7	2.5	5.7	9.6	0.016	0.025
PL10-102	7.3	4.4	1.9	4.4	7.6	0.020	0.025
PL10-103	11.0	3.6	1.6	3.6	6.2	0.024	0.025
PL10-104	15.0	3.1	1.3	3.1	5.3	0.044	0.020
PL10-105	20.0	2.7	1.1	2.7	4.6	0.051	0.020
PL10-106	25.0	2.4	1.0	2.4	4.1	0.057	0.020
PL10-107	33.0	2.0	0.91	2.0	3.5	0.104	0.020
PL10-108	48.0	1.7	0.76	1.7	2.9	0.078	0.020
PL10-109	62.0	1.5	0.67	1.5	2.5	0.088	0.020
PL10-110	75.0	1.3	0.61	1.3	2.3	0.097	0.020

PL10-200

ENERGY RATING: 125 μ J

SIZE 200

Vanguard P/N	Inductance @ 0 Amps DC (uH \pm 15%)	Rated Current max (DCA)	Current @ 10% Δ L min (DCA)	Current @ 30% Δ L min (DCA)	Current @ 50% Δ L min (DCA)	DCR max (Ohms)	Lead Size
PL10-201	5.3	6.7	2.9	6.7	11.5	0.003	0.050
PL10-202	9.8	4.9	2.1	4.9	8.4	0.007	0.040
PL10-203	16	3.9	1.7	3.9	6.6	0.012	0.036
PL10-204	25	3.1	1.3	3.1	5.2	0.024	0.029
PL10-205	37	2.5	1.1	2.5	4.3	0.045	0.023
PL10-206	50	2.2	0.96	2.2	3.7	0.067	0.020
PL10-207	77	1.7	0.78	1.7	3	0.105	0.016
PL10-208	100	1.5	0.68	1.5	2.6	0.190	0.014
PL10-209	210	1.2	0.54	1.2	2.1	0.370	0.012
PL10-210	500	0.69	0.30	0.69	1.1	0.350	0.018
PL10-211	750	0.57	0.25	0.57	0.96	0.670	0.014
PL10-212	990	0.49	0.21	0.49	0.84	0.780	0.014
PL10-213	1490	0.40	0.17	0.40	0.68	1.210	0.013
PL10-214	1990	0.34	0.15	0.34	0.59	1.750	0.012

CUSTOM DESIGNS & MODIFICATIONS:

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

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PL10-300

ENERGY RATING: 400 µJ

SIZE 300

Vanguard P/N	Inductance @ 0 Amps DC (uH ± 15%)	Rated Current max (DCA)	Current @ 10% Δ L min (DCA)	Current @ 30% Δ L min (DCA)	Current @ 50% Δ L min (DCA)	DCR max (Ohms)	Lead Size
PL10-301	11	8.5	3.7	8.5	14.5	0.005	0.051
PL10-302	23	5.8	2.5	5.8	9.9	0.01	0.036
PL10-303	52	3.9	1.7	3.9	6.6	0.04	0.025
PL10-304	98	2.8	1.2	2.8	4.8	0.09	0.020
PL10-305	150	2.2	1.0	2.2	3.8	0.18	0.016
PL10-306	200	1.9	0.88	1.9	3.3	0.25	0.014
PL10-307	300	1.6	0.71	1.6	2.7	0.13	0.023
PL10-308	510	1.2	0.55	1.2	2.1	0.27	0.018
PL10-309	750	1.0	0.45	1.0	1.7	0.42	0.016
PL10-310	990	0.89	0.39	0.89	1.5	0.48	0.016
PL10-311	1500	0.72	0.31	0.72	1.2	0.74	0.014
PL10-312	2000	0.63	0.27	0.63	1.0	1.1	0.013

PL10-400

ENERGY RATING: 500 µJ

SIZE 400

Vanguard P/N	Inductance @ 0 Amps DC (uH ± 15%)	Rated Current max (DCA)	Current @ 10% Δ L min (DCA)	Current @ 30% Δ L min (DCA)	Current @ 50% Δ L min (DCA)	DCR max (Ohms)	Lead Size
PL10-401	5.8	13.3	5.9	13.3	22.7	0.002	0.081
PL10-402	10	10	4.4	10	17	0.003	0.081
PL10-403	26	6.3	2.7	6.3	10.7	0.008	0.057
PL10-404	52	4.4	1.9	4.4	7.5	0.02	0.045
PL10-405	77	3.6	1.6	3.6	6.2	0.03	0.036
PL10-406	100	3.1	1.3	3.1	5.3	0.04	0.032
PL10-407	250	2.0	0.89	2.0	3.4	0.14	0.023
PL10-408	500	1.4	0.63	1.4	2.4	0.50	0.014
PL10-409	750	1.1	0.51	1.1	1.9	0.78	0.013
PL10-410	1000	1.0	0.44	1.0	1.7	0.30	0.025
PL10-411	2000	0.71	0.31	0.71	1.2	0.53	0.023
PL10-412	5000	0.45	0.2	0.45	0.77	1.3	0.018

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PL10-500

ENERGY RATING: 1000 µJ

SIZE 500

Vanguard P/N	Inductance @ 0 Amps DC (µH ± 15%)	Rated Current max (DCA)	Current @ 10% Δ L min (DCA)	Current @ 30% Δ L min (DCA)	Current @ 50% Δ L min (DCA)	DCR max (Ohms)	Lead Size
PL10-501	9.3	15.2	6.7	15.2	25.8	0.004	0.064
PL10-502	21	10.1	4.4	10.1	17.2	0.006	0.064
PL10-503	49	6.6	2.9	6.6	11.2	0.012	0.057
PL10-504	73	5.4	2.3	5.4	9.2	0.01	0.045
PL10-505	100	4.6	2.0	4.6	7.8	0.03	0.040
PL10-506	250	2.9	1.2	2.9	4.9	0.10	0.029
PL10-507	500	2.0	0.91	2.0	3.5	0.12	0.036
PL10-508	750	1.6	0.74	1.6	2.8	0.15	0.036
PL10-509	1000	1.4	0.64	1.4	2.4	0.22	0.032
PL10-510	1500	1.1	0.52	1.1	2.0	0.34	0.029
PL10-511	2000	1.0	0.45	1.0	1.7	0.40	0.029

PL10-600

ENERGY RATING: 1250 µJ

SIZE 600

Vanguard P/N	Inductance @ 0 Amps DC (µH ± 15%)	Rated Current max (DCA)	Current @ 10% Δ L min (DCA)	Current @ 30% Δ L min (DCA)	Current @ 50% Δ L min (DCA)	DCR max (Ohms)	Lead Size
PL10-601	4.7	31.4	13.7	31.4	53.3	0.003	0.064
PL10-602	9.6	22	9.6	22	37.3	0.005	0.064
PL10-603	22	14.6	6.3	14.6	24.8	0.007	0.064
PL10-604	51	9.5	4.1	9.5	16.2	0.01	0.064
PL10-605	98	6.8	2.9	6.8	11.6	0.02	0.057
PL10-606	200	4.7	2.0	4.7	8.1	0.04	0.045
PL10-607	300	3.9	1.7	3.9	6.6	0.06	0.040
PL10-608	500	3.0	1.3	3.0	5.1	0.007	0.032
PL10-609	1000	2.1	0.94	2.1	3.6	0.005	0.040
PL10-610	2000	1.5	0.66	1.5	2.5	0.004	0.040
PL10-611	3000	1.2	0.54	1.2	2.1	0.003	0.032
PL10-612	5000	0.96	0.42	0.96	1.6	0.003	0.032
PL10-613	10000	0.67	0.29	0.67	1.1	0.002	0.029

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