

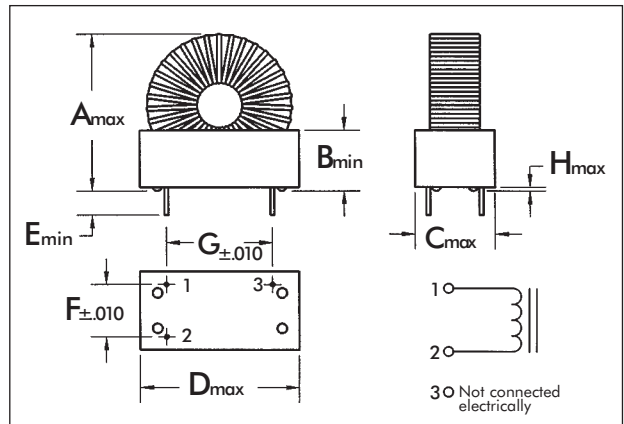
# POWER INDUCTORS

## 2:1 INDUCTANCE SWING PL8 SERIES

### • PL8-100

### • Size 100

Vanguard P/N	Ind. @ 0 Amps DC uH ±10%	Ind. @ Rated Current uH, Typical	Rated Current DCA, Max.	DC Resistance mΩ, max.	Energy Rating μJ	Lead Size
PL8-101	8	4	18.0	2.2	648	0.081
PL8-102	12	6	16.0	2.7	768	0.081
PL8-103	16	8	13.0	3.2	676	0.081
PL8-104	21	10	12.0	3.6	720	0.081
PL8-105	26	13	10.0	6.4	650	0.064
PL8-106	32	16	9.0	7.1	648	0.064
PL8-107	39	19	8.0	7.8	608	0.064
PL8-108	47	23	7.5	8.6	647	0.064
PL8-109	55	27	7.0	15.0	662	0.051
PL8-110	64	32	6.5	16.0	676	0.051
PL8-111	73	36	6.0	17.0	648	0.051
PL8-112	83	41	5.5	18.0	620	0.051
PL8-113	94	47	5.0	19.0	588	0.051
PL8-114	105	52	4.5	21.0	527	0.051
PL8-115	117	58	4.0	34.0	464	0.040
PL8-116	130	65	3.5	36.0	398	0.040
PL8-117	143	71	3.0	38.0	320	0.040



STANDARD DIMENSIONS

Part Size	A in. mm.	B in. mm.	C in. mm.	D in. mm.	E in. mm.	F in. mm.	G in. mm.	H in. mm.
100	1.20	0.45	0.60	1.20	0.20	0.40	0.80	0.015
	30.5	11.4	15.2	30.5	5.1	10.2	20.3	0.4
200	1.44	0.70	0.80	1.44	0.20	0.60	0.90	0.03
	36.6	17.8	20.3	36.6	5.1	15.2	22.9	0.8
300	1.72	0.70	0.80	1.60	0.20	0.60	0.90	0.03
	43.7	17.8	20.3	40.6	5.08	15.2	22.9	0.8

Sizes 400 & 500 on next page

### • PL8-200

### • Size 200

Vanguard P/N	Ind. @ 0 Amps DC uH ±10%	Ind. @ Rated Current uH, Typical	Rated Current DCA, Max.	DC Resistance mΩ, max.	Energy Rating μJ	Lead Size
PL8-201	15	7	17.0	3.2	1011	0.081
PL8-202	21	10	14.0	4.1	980	0.081
PL8-203	27	13	12.0	4.5	936	0.081
PL8-204	34	17	11.0	5.1	1028	0.081
PL8-205	42	21	10.0	5.7	1050	0.081
PL8-206	47	23	9.5	8.7	1038	0.064
PL8-207	56	28	9.0	9.5	1134	0.064
PL8-208	66	33	8.5	11.0	1192	0.064
PL8-209	77	38	8.0	12.0	1216	0.064
PL8-210	83	41	7.5	12.0	1153	0.064
PL8-211	96	48	7.0	13.0	1176	0.064
PL8-212	108	54	6.5	21.0	1141	0.051
PL8-213	122	62	6.0	22.0	1116	0.051
PL8-214	137	68	5.5	24.0	1028	0.051
PL8-215	153	76	5.0	25.0	950	0.051

### • PL8-300

### • Size 300

Vanguard P/N	Ind. @ 0 Amps DC uH ±10%	Ind. @ Rated Current uH, Typical	Rated Current DCA, Max.	DC Resistance mΩ, max.	Energy Rating μJ	Lead Size
PL8-301	37	18	17.0	7.4	2601	0.081
PL8-302	45	22	16.0	8.1	2816	0.081
PL8-303	54	27	15.0	8.7	3037	0.081
PL8-304	62	31	14.0	9.2	3038	0.081
PL8-305	72	36	13.0	9.8	3042	0.081
PL8-306	84	42	12.0	11.0	3024	0.081
PL8-307	95	47	11.0	18.0	2843	0.064
PL8-308	108	54	10.5	19.0	2976	0.064
PL8-309	120	60	10.0	21.0	3000	0.064
PL8-310	134	67	9.5	22.0	3023	0.064
PL8-311	148	74	9.0	23.0	2997	0.064
PL8-312	164	82	8.5	24.0	2962	0.064
PL8-313	180	90	8.0	25.0	2880	0.064
PL8-314	196	98	7.5	26.0	2756	0.064
PL8-315	214	107	7.0	28.0	2621	0.064
PL8-316	232	116	6.5	29.0	2450	0.064
PL8-317	250	125	6.0	30.0	2250	0.064

### FEATURES & CHARACTERISTICS

- **2:1 Inductance Swing:** The ratio of inductance with no current to the inductance with rated current is nominally 2 to 1.
- Other inductance values and/or current ratings are available as options.
- **Energy Rating:** computed as  $LI^2/2$
- **Operating Temperature:** -55 °C to +130 °C (wire insulation, Class B)
- **Standard Inductance Tolerance:** ±10%, tighter tolerances available
- **Temperature Rise:** 40°C

**ISO 9002  
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## PL8 SERIES



VANGUARD ELECTRONICS COMPANY  
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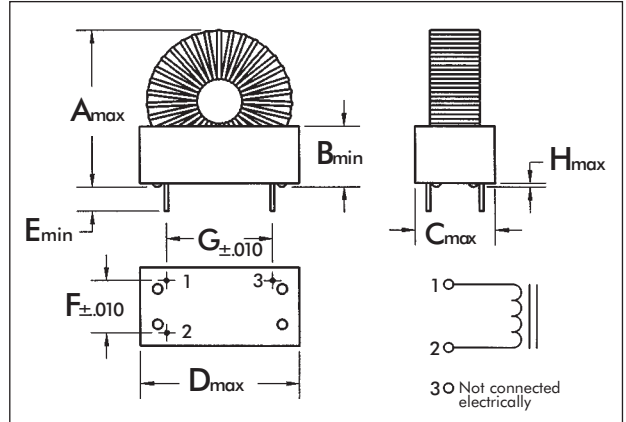
# POWER INDUCTORS

## 2:1 INDUCTANCE SWING PL8 SERIES

### • PL8-400

### • Size 400

Vanguard P/N	Ind. @ 0 Amps DC uH±10%	Ind. @ Rated Current uH, Typical	Rated Current DCA, Max.	DC Resistance mΩ, max.	Energy Rating μJ	Lead Size
PL8-401	55	22	20.0	7.5	4400	0.081
PL8-402	66	33	17.0	8.3	4768	0.081
PL8-403	80	40	15.0	9.0	4500	0.081
PL8-404	93	46	14.0	9.8	4508	0.081
PL8-405	108	54	13.0	11.0	4563	0.081
PL8-406	124	62	12.0	12.0	4464	0.081
PL8-407	141	70	11.5	19.0	4628	0.081
PL8-408	159	79	11.0	20.2	4779	0.064
PL8-409	178	89	10.5	22.0	4906	0.064
PL8-410	200	100	10.0	22.5	5000	0.064
PL8-411	220	110	9.5	24.0	4963	0.064
PL8-412	240	120	9.0	25.0	4860	0.064
PL8-413	267	133	8.5	26.0	4804	0.064
PL8-414	292	146	8.0	28.0	4672	0.064
PL8-415	318	158	7.5	29.0	4443	0.064
PL8-416	345	172	7.0	30.0	4214	0.064
PL8-417	373	186	6.5	31.0	3929	0.064
PL8-418	402	201	6.0	32.0	3618	0.064



STANDARD DIMENSIONS

Part Size	A in. mm.	B in. mm.	C in. mm.	D in. mm.	E in. mm.	F in. mm.	G in. mm.	H in. mm.
400	2.00 50.8	0.90 22.9	0.91 23.1	1.95 49.5	0.20 5.1	0.70 17.8	1.20 30.5	0.03 0.8
	2.30 58.4	1.00 25.4	1.11 28.2	2.30 58.4	0.20 5.1	0.90 22.8	1.50 38.1	0.03 0.8

### • PL8-500

### • Size 500

Vanguard P/N	Ind. @ 0 Amps DC uH±10%	Ind. @ Rated Current uH, Typical	Rated Current DCA, Max.	DC Resistance mΩ, max.	Energy Rating μJ	Lead Size
PL8-501	64	32	20.0	8.1	6400	0.081
PL8-502	79	39	18.0	9.2	6318	0.081
PL8-503	96	48	16.0	11.0	6144	0.081
PL8-504	114	57	15.0	12.0	6412	0.081
PL8-505	134	67	14.0	13.0	6566	0.081
PL8-506	155	77	13.0	14.0	6506	0.081
PL8-507	178	89	12.0	15.0	6408	0.081
PL8-508	202	101	11.5	17.0	6678	0.081
PL8-509	228	114	11.0	18.0	6897	0.081
PL8-510	256	128	10.0	19.0	6400	0.081
PL8-511	286	143	9.5	20.0	6452	0.081
PL8-512	317	158	9.0	21.0	6399	0.081
PL8-513	349	174	8.5	22.0	6285	0.081
PL8-514	383	192	8.0	23.0	6144	0.081
PL8-515	418	209	7.5	25.0	5878	0.081
PL8-516	456	228	7.0	26.0	5586	0.081
PL8-517	495	247	6.5	36.0	5217	0.064
PL8-518	535	267	6.3	37.0	5214	0.064
PL8-519	577	288	6.0	38.0	5184	0.064
PL8-520	621	310	5.8	40.0	5124	0.064
PL8-521	666	333	5.5	41.0	5036	0.064
PL8-522	713	356	5.3	42.0	4906	0.064
PL8-523	761	380	5.0	43.0	4750	0.064
PL8-529	811	405	4.8	44.0	4568	0.064
PL8-530	863	431	4.5	45.0	4363	0.064
PL8-531	915	457	4.3	46.0	4127	0.064
PL8-532	970	485	4.0	48.0	3880	0.064
PL8-533	1000	500	3.8	49.0	3515	0.064

Sizes 100, 200, & 300 on previous page

### FEATURES & CHARACTERISTICS

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