

POWER INDUCTORS

LOW PROFILE SURFACE MOUNT POWER INDUCTORS PL1 & PL2 SERIES

IN	MM
0.535	13.59
0.410	10.41
0.310	7.87
0.260	6.60
0.230	5.84
0.200	5.08
0.135	3.43
0.085	2.16
0.025	0.64
0.010	0.26

CONVERSION

Vanguard Part Number	Inductance μH $\pm 10\%$	D.C. Resistance Ohms Max	Rated D.C. mA
PL1-01	5.0	0.21	740
PL1-02	5.6	0.23	690
PL1-03	6.8	0.24	653
PL1-04	8.2	0.27	584
PL1-05	10	0.38	528
PL1-06	12	0.41	482
PL1-07	15	0.45	444
PL1-08	18	0.50	396
PL1-09	20	0.63	382
PL1-10	22	0.65	365
PL1-11	25	0.69	345
PL1-12	27	0.71	326
PL1-13	30	0.75	315
PL1-14	33	0.79	300
PL1-15	39	0.85	275
PL1-16	47	1.18	252
PL1-17	50	1.24	241
PL1-18	56	1.29	230
PL1-19	68	1.42	209
PL1-20	75	1.50	200
PL1-21	82	2.03	190
PL1-22	100	2.27	170
PL1-23	120	2.44	158
PL1-24	150	2.75	140
PL1-25	180	4.67	129
PL1-26	200	4.94	121
PL1-27	220	5.21	115
PL1-28	250	5.54	108
PL1-29	270	5.75	104
PL1-30	300	6.03	99
PL1-31	330	6.29	94
PL1-32	390	6.82	87
PL1-33	470	11.75	79
PL1-34	500	12.08	77
PL1-35	560	12.75	73
PL1-36	680	14.10	66
PL1-37	750	14.75	63
PL1-38	820	15.00	60
PL1-39	1000	17.00	50

Inductance is measured at 0.1Vrms and 10kHz

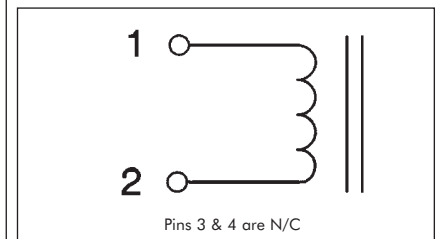
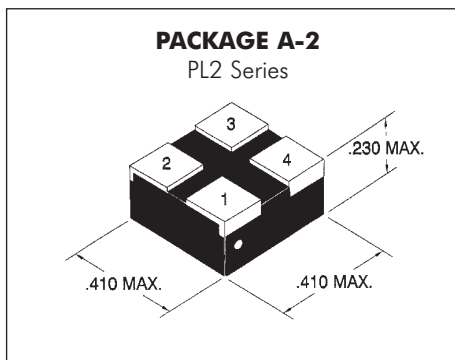
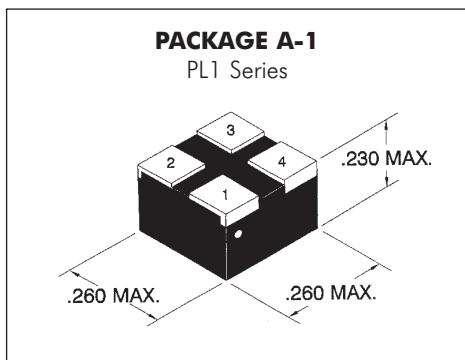
Vanguard Part Number	Inductance μH $\pm 10\%$	D.C. Resistance Ohms Max	Rated D.C. mA
PL2-01	5.0	0.050	1100
PL2-02	5.6	0.053	1050
PL2-03	6.8	0.056	990
PL2-04	8.2	0.065	895
PL2-05	10	0.085	810
PL2-06	12	0.09	745
PL2-07	15	0.10	663
PL2-08	18	0.13	595
PL2-09	20	0.14	570
PL2-10	22	0.15	540
PL2-11	25	0.19	510
PL2-12	27	0.20	497
PL2-13	30	0.21	470
PL2-14	33	0.22	447
PL2-15	39	0.24	406
PL2-16	47	0.33	373
PL2-17	50	0.34	358
PL2-18	56	0.45	344
PL2-19	68	1.00	308
PL2-20	75	1.05	294
PL2-21	82	1.33	284
PL2-22	100	1.48	255
PL2-23	120	1.62	232
PL2-24	150	1.80	208
PL2-25	180	2.48	190
PL2-26	200	2.61	180
PL2-27	220	2.74	172
PL2-28	250	2.92	161
PL2-29	270	3.02	155
PL2-30	300	3.17	147
PL2-31	330	4.39	140
PL2-32	390	4.72	129
PL2-33	470	5.20	117
PL2-34	500	5.33	114
PL2-35	560	5.67	107
PL2-36	680	7.96	97
PL2-37	750	8.35	93
PL2-38	820	8.69	89
PL2-39	1000	9.60	80

FEATURES

- Different values and tighter tolerances available
- Compatible with all standard solder installation methods: reflow/flow, wave, infrared, and vapor phase.
- Compact, low profile package, ideal for automatic placement
- Welded Internal Connections, Transfer Molded Package
- Toroidal Construction provides low external magnetic field

CHARACTERISTICS

- Operating temperature range : -55°C to +125°C
- Temperature Rise (@ 90°C) : < 30°C
- Inductance drop at rated DC : < 30%
- Mounting and TCE : Call Factory for Application Note
- Dielectric Withstanding Voltage: 500 Vac
- Delta L: $\pm 2\%$ over operating temperature range
- Terminations: Tin-Lead coated Phosphor Bronze
- Altitude: 70,000 feet or more (1.31inHg or less)
- Resistance to Soldering Heat: 275°C for 10 secs
- Moisture, Shock and Immersion Resistant
- Overload Current: 1.5 times rated current



VANGUARD ELECTRONICS COMPANY
2010 200 4100 UNIVERSITY BLVD

ISO 9002
CERTIFIED

(02/00)

PL1 & PL2 SERIES

POWER INDUCTORS

LOW PROFILE SURFACE MOUNT POWER INDUCTORS PL3 & PL4 SERIES

IN	MM
0.535	13.59
0.410	10.41
0.310	7.87
0.260	6.60
0.230	5.84
0.200	5.08
0.135	3.43
0.085	2.16
0.025	0.64
0.010	0.26

CONVERSION

Vanguard Part Number	Inductance μH $\pm 10\%$	D.C. Resistance Ohms Max	Rated D.C. 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 is measured at 0.1Vrms and 10kHz

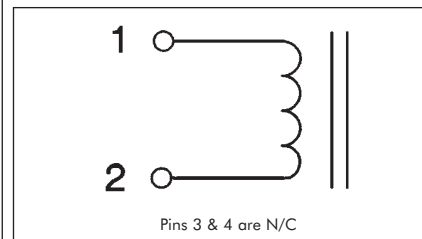
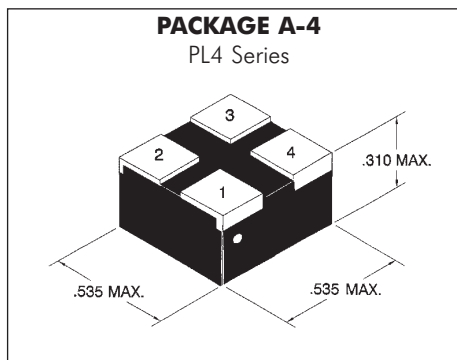
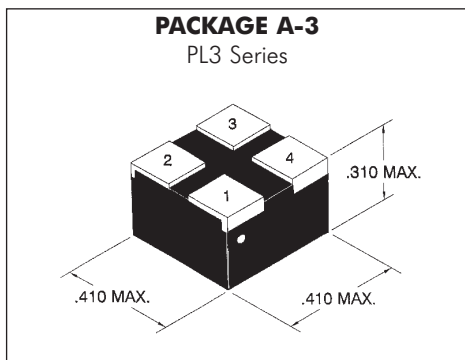
Vanguard Part Number	Inductance μH $\pm 10\%$	D.C. Resistance Ohms Max	Rated D.C. mA
PL4-01	5.0	0.030	2360
PL4-02	5.6	0.033	2160
PL4-03	6.8	0.036	2000
PL4-04	8.2	0.039	1860
PL4-05	10	0.044	1630
PL4-06	12	0.047	1530
PL4-07	15	0.052	1370
PL4-08	18	0.058	1240
PL4-09	20	0.077	1180
PL4-10	22	0.080	1130
PL4-11	25	0.087	1040
PL4-12	27	0.090	1000
PL4-13	30	0.093	960
PL4-14	33	0.096	930
PL4-15	39	0.106	840
PL4-16	47	0.113	765
PL4-17	50	0.117	745
PL4-18	56	0.123	700
PL4-19	68	0.173	635
PL4-20	75	0.182	605
PL4-21	82	0.190	580
PL4-22	100	0.210	520
PL4-23	120	0.224	480
PL4-24	150	0.315	425
PL4-25	180	0.340	395
PL4-26	200	0.460	370
PL4-27	220	0.484	350
PL4-28	250	0.510	330
PL4-29	270	0.670	315
PL4-30	300	0.700	300
PL4-31	330	0.73	290
PL4-32	350	0.75	280
PL4-33	390	0.98	265
PL4-34	470	1.07	245
PL4-35	500	1.10	235
PL4-36	560	1.17	220
PL4-37	680	1.32	200
PL4-38	750	1.40	190
PL4-39	820	1.46	183
PL4-40	1000	2.18	165
PL4-41	1200	2.40	150
PL4-42	1500	2.68	135

FEATURES

- Different values and tighter tolerances available
- Compatible with all standard solder installation methods: reflow/flow, wave, infared, and vapor phase.
- Compact, low profile package, ideal for automatic placement
- Welded Internal Connections, Transfer Molded Package
- Toroidal Construction provides low external magnetic field

CHARACTERISTICS

- Operating temperature range : -55°C to +125°C
- Temperature Rise (@ 90°C): < 30°C
- Inductance drop at rated DC: < 30%
- Mounting and TCE: Call Factory for Application Note
- Dielectric Withstanding Voltage: 500 Vac
- Delta L: $\pm 2\%$ over operating temperature range
- Terminations: Tin-Lead coated Phosphor Bronze
- Altitude: 70,000 feet or more
- Resistance to Soldering Heat: 275°C for 10 secs
- Moisture, Shock and Immersion Resistant
- Overload Current: 1.5 times rated current



VANGUARD ELECTRONICS COMPANY
2101 202 4100 WWW.VANGUARD.COM

ISO 9002
CERTIFIED

(02/00)

PL3 & PL4 SERIES