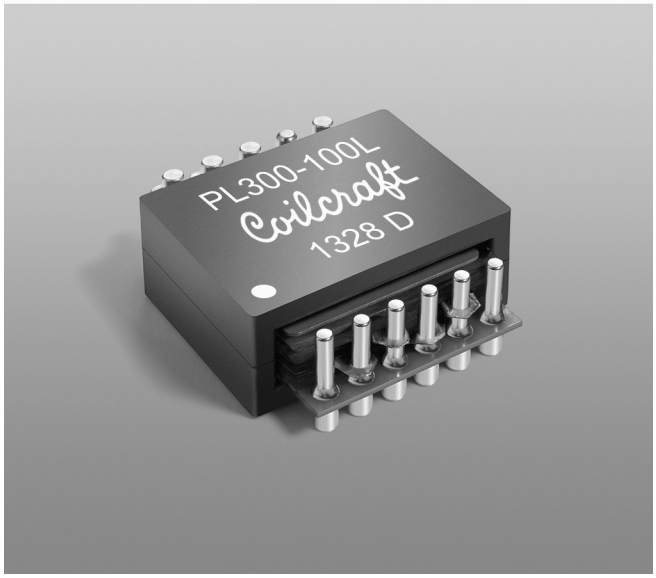
NEW!

SMT Planar Transformers

For Applications up to 300 Watts



- Rated for 300 Watts
- Designed to operate between 200 kHz and 700 kHz with a nominal 48 V input.
- High efficiency; excellent DCR; very low leakage inductance; 1500 Vrms, one minute primary to secondary isolation.
- Provides 0.009″ (0.229 mm) clearance above the seating plane
- May be special ordered with an auxiliary winding

Core material Ferrite

Terminations Matte tin over nickel over brass.

Weight 22.5 – 26.0 g

Ambient temperature –40°C to +125°C

Storage temperature Component: –40°C to +125°C. Tray packaging: –40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

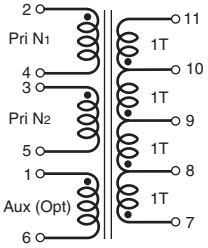
Packaging 25 per tray

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number[1]	Primary turns N_1	Primary turns N_2	Primary inductance[2] min (µH)	Leakage inductance[3] max (µH)	DCR max (mOhms) Primary (N_1)	DCR max (mOhms) Primary (N_2)	DCR max (mOhms) Secondary[4]	Volt-time product typ[5] (Vµsec)	Height max (in/mm)
PL300-100L	4	4	211	0.25	7.2	7.2	4.2	206	0.410/10.4
PL300-101L	5	5	330	0.35	9.0	9.0	4.2	258	0.410/10.4
PL300-102L	6	6	423	0.50	10.6	10.6	4.2	310	0.450/11.4
PL300-103L	7	7	588	0.75	12.3	12.3	4.2	361	0.450/11.4
PL300-104L	8	8	768	1.0	13.8	13.8	4.2	413	0.475/12.1

1. To order a transformer with an optional **auxiliary winding**, add an "X" and the turn count after the PL300, e.g. PL300**X3**-100L. Turn counts of 2, 3, 4, 5, 7 and 9 are available for the auxiliary winding. Transformers with auxiliary windings are not stocked.
2. Inductance measured on an Agilent/HP 4284 at 200 kHz, 0.5 Vrms, 0 Adc between pins 2 and 5 with pins 3 and 4 connected.
3. Leakage inductance measured at 200 kHz, 0.5 Vrms, 0 Adc between pins 2 and 5, with pins 3 and 4 connected, and with all secondary pins shorted.
4. DCR for secondary is measured between pins 7 and 11.
5. Volt-time product is based on primary windings connected in series.
6. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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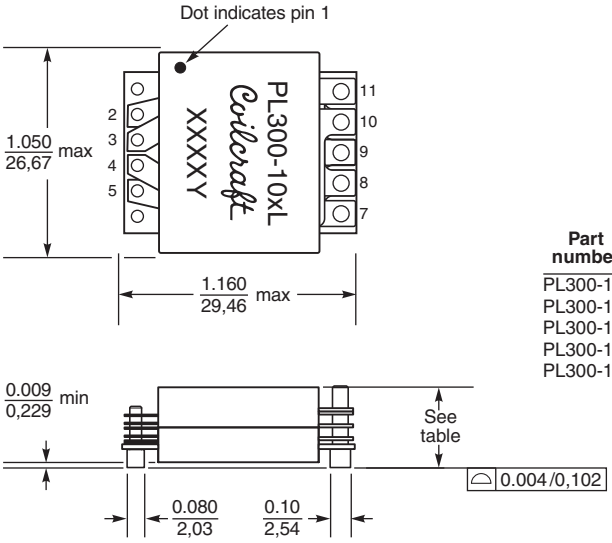
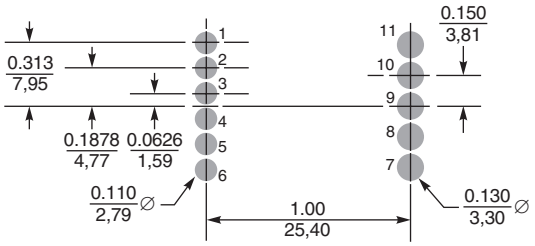
PL300 Series SMT Planar Transformers



Part number	Height max (in / mm)
PL300-100L	0.410 / 10.4
PL300-101L	0.410 / 10.4
PL300-102L	0.450 / 11.4
PL300-103L	0.450 / 11.4
PL300-104L	0.475 / 12.1



Recommended Land Pattern

Dimensions are in inches / mm

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