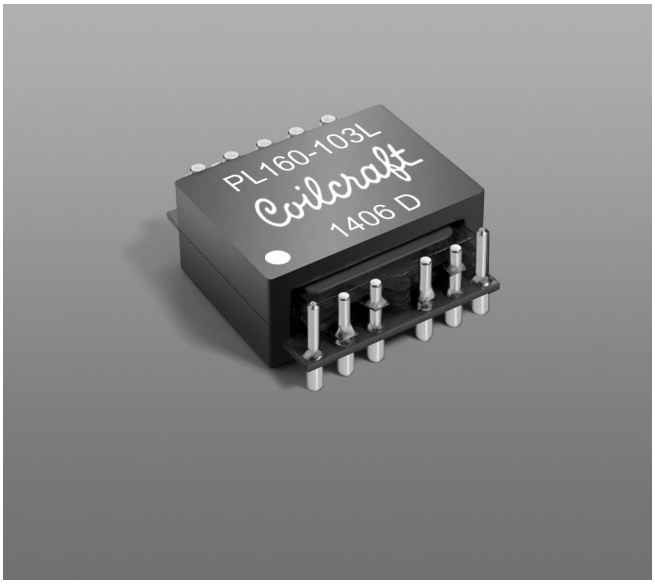
NEW!

SMT Planar Transformers

For Applications up to 160 Watts



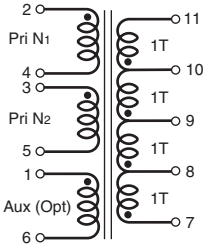
- Rated for 160 Watts
- Designed to operate between 200 kHz and 700 kHz with a nominal 48 V input.
- High efficiency; excellent DCR; very low leakage inductance; 1500 Vrms, one minute primary to secondary isolation.
- Provides 0.009″ (0.229 mm) clearance above the seating plane
- May be special ordered with an auxiliary winding

Core material Ferrite
Terminations Matte tin over nickel over brass
Weight 12.0 – 12.8 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 36 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)
PL160-100L	4	4	153	0.35	14.7	14.7	6.8	150	0.352 / 8.94
PL160-101L	4	5	194	0.40	14.7	18.5	6.8	168	0.352 / 8.94
PL160-102L	5	5	240	0.45	18.5	18.5	6.8	187	0.360 / 9.14
PL160-103L	5	6	290	0.55	18.5	21.5	6.8	206	0.375 / 9.53
PL160-104L	6	6	345	0.55	21.5	21.5	6.8	224	0.375 / 9.53

1. To order a transformer with an optional **auxiliary winding**, add an "X" and the turn count after the PL160, e.g. PL160**X3**-100LB. 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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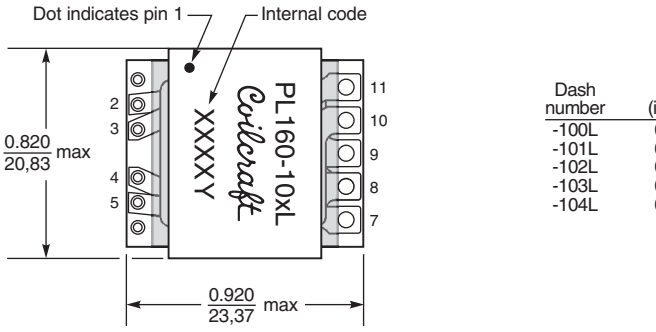
NEW!

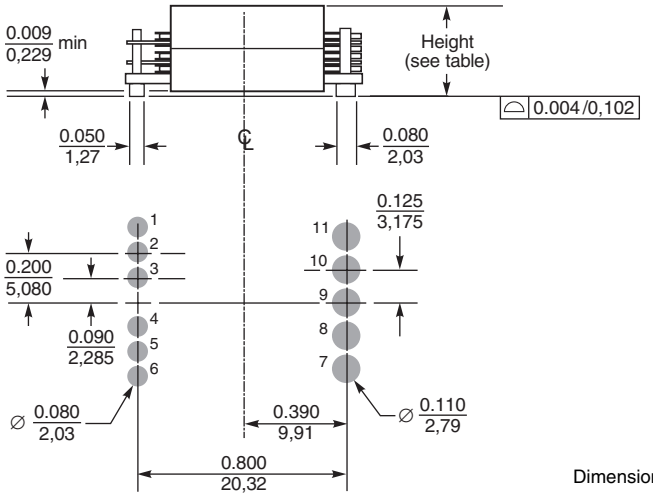
RoHS COMPLIANT

AEC Q200 +125°C

PL160 Series SMT Planar Transformers



Dash number	Height max (inches / mm)
-100L	0.352 / 8.94
-101L	0.352 / 8.94
-102L	0.360 / 9.14
-103L	0.375 / 9.53
-104L	0.375 / 9.53



Recommended Land Pattern

Dimensions are in inches / mm

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