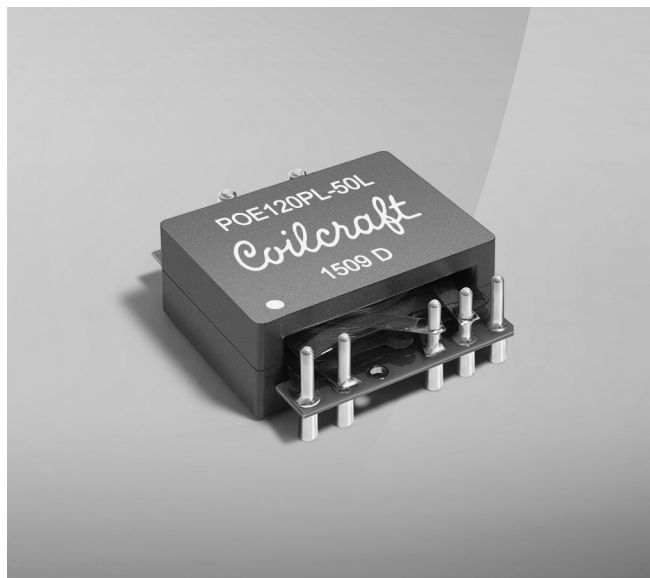


NEW!

120 W PoE Planar Transformers

For Active Clamp
Forward Topology

- Designed for active clamp forward topology
- Operates at 200 kHz, with 36 – 72 Volt input
- High efficiency; excellent DCR; very low leakage inductance
- Isolation: 1500 Vrms one minute primary and aux to secondary.
- Provides 0.009" (0.229 mm) clearance above the seating plane
- Includes a 12-Volt auxiliary winding

Core material Ferrite**Terminations** Matte tin over nickel over brass.**Weight** 11.1 – 11.9 g**Ambient temperature** –40°C to +125°C**Maximum part temperature** +165°C (ambient + temp rise)**Storage temperature** Component: –40°C to +125°C.

Tray or tape and reel 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 (standard). Optional tape and reel (additional cost). Factory order only, not stocked.**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² ±20% (μH)	DCR max (mOhms) pri : sec : aux	Leakage inductance ³ max (μH)	Turns ratio pri : sec : aux	Output
POE120PL-33L_	50	27.6 : 1.26 : 270	0.70	6 : 1 : 3.5	3.3 V, 36 A
POE120PL-50L_	50	18.9 : 1.26 : 123	0.31	4 : 1 : 2.5	5.0 V, 24 A
POE120PL-12L_	50	18.9 : 6.80 : 58.5	0.37	2 : 1 : 1	12 V, 10 A
POE120PL-24L_	50	18.9 : 13.6 : 58.5	0.39	1 : 1 : 0.5	24 V, 5 A

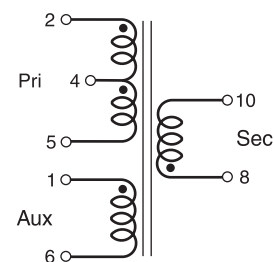
1. When ordering, please specify **packaging** code:**POE120PL-24LD****Packaging:** **Blank** In trays, 36 per tray**D** = Optional tape and reel (additional cost), 13" machine-ready reel. EIA-481 embossed plastic tape. See tape and reel specifications on page 2. Factory order only, not stocked.**B** = Optional tape and reel (additional cost), less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead. Factory order only, not stocked.

2. Inductance is for the primary, measured at 200 kHz, 0.5 Vrms, 0 Adc.

3. Leakage inductance is for the primary and is measured with the secondary winding shorted.

4. Electrical specifications at 25°C.

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



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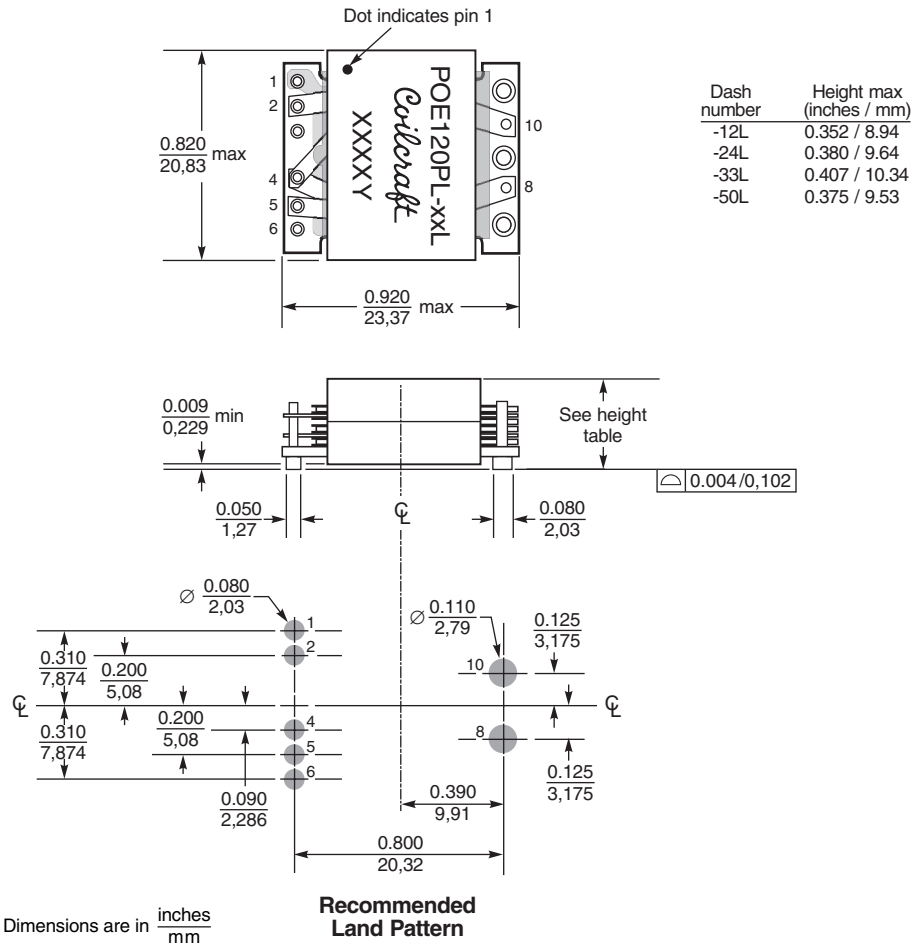
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.

NEW!

120 W Planar Transformers for PoE – POE120PL



Optional tape and reel packaging (additional cost). Factory order only, not stocked.

POE120PL-12: 250/13" reel	Plastic tape: 44 mm wide, 0.5 mm thick, 32 mm pocket spacing, 9.40 mm pocket depth
POE120PL-24: 200/13" reel	Plastic tape: 44 mm wide, 0.5 mm thick, 28 mm pocket spacing, 9.98 mm pocket depth
POE120PL-33: 200/13" reel	Plastic tape: 44 mm wide, 0.5 mm thick, 28 mm pocket spacing, 10.68 mm pocket depth
POE120PL-50: 250/13" reel	Plastic tape: 44 mm wide, 0.5 mm thick, 32 mm pocket spacing, 9.78 mm pocket depth



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