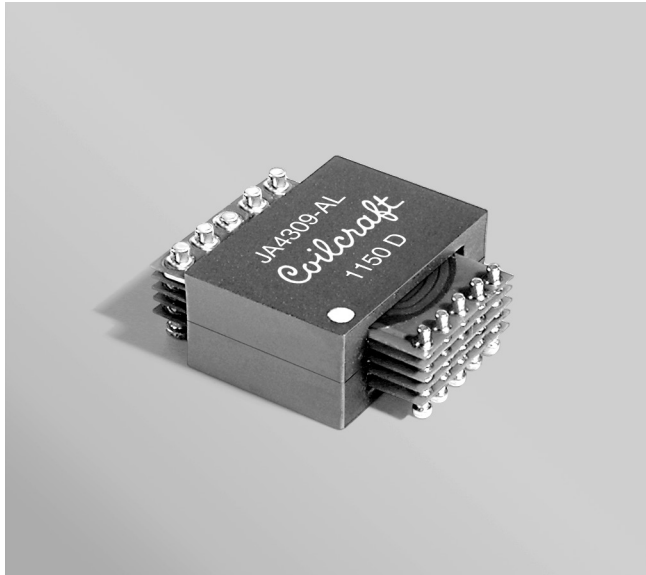


# Planar Transformer

For TI UCC2897A Active  
Clamp PWM Controller



- Developed for Texas Instruments PMP4804 and PMP5997 Demo Board/Reference Design
- Designed as active clamp in forward topology
- Auxiliary winding provides current to the chipset
- Input voltage range: 36 – 75 V

**Core material** Ferrite

**Terminations** RoHS matte tin over nickel over brass. Other terminations available at additional cost.

**Weight** 11.6 g

**Ambient temperature** –40°C to +85°C

**Storage temperature** Component: –40°C to +85°C.

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** 200 per 13" reel Plastic tape: 44 mm wide, 0.37 mm thick, 32 mm pocket spacing, 9.35 mm pocket depth

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf

Part number <sup>1</sup>	Output power (W)	Output voltage nom (V)	Output current (A <sub>dc</sub> )	Primary inductance <sup>2</sup> min (μH)	Leakage inductance <sup>3</sup> max (μH)	DCR max <sup>4</sup> (mOhms)	Turns ratio pri : sec1 : sec2 : aux	Pri/sec Isolation (Vdc)
JA4309-AL_	100	3.3	30	67.5	0.35	pri: 20.0 sec: 0.5 aux: 160	6 : 1 : 1 : 4	1500

1. When ordering, please specify a **packaging** code:

**JA4309-ALD**

**Packaging: D** = 13" machine ready reel. EIA-481 embossed plastic tape (200 per full reel).

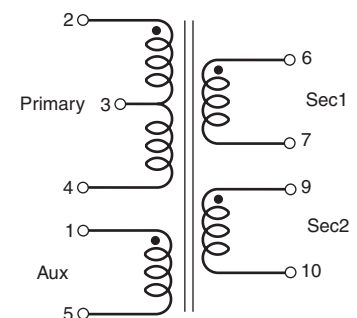
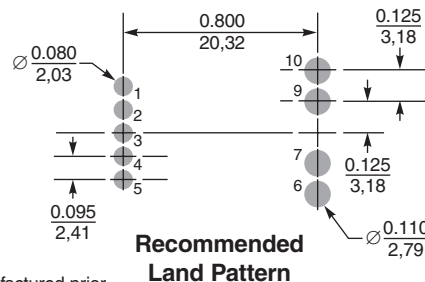
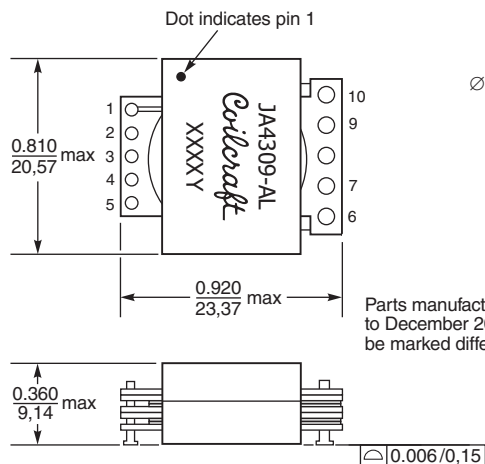
**B** = Less than full reel. In tape, but not machine ready.  
To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance measured on an Agilent/HP 4284 between pins 2 and 4 at 200 kHz, 0.1 Vrms, 0 A<sub>dc</sub>.

3. Leakage inductance measured between pins 2 and 4 at 100 kHz, 0.1 Vrms, 0 A<sub>dc</sub> with all secondary pins shorted.

4. DCR for the secondary is for each winding.

5. Electrical specifications at 25°C.



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$



www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com  
**UK** +44-1236-730595 sales@coilcraft-europe.com  
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw  
**China** +86-21-6218 8074 sales@coilcraft.com.cn  
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

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