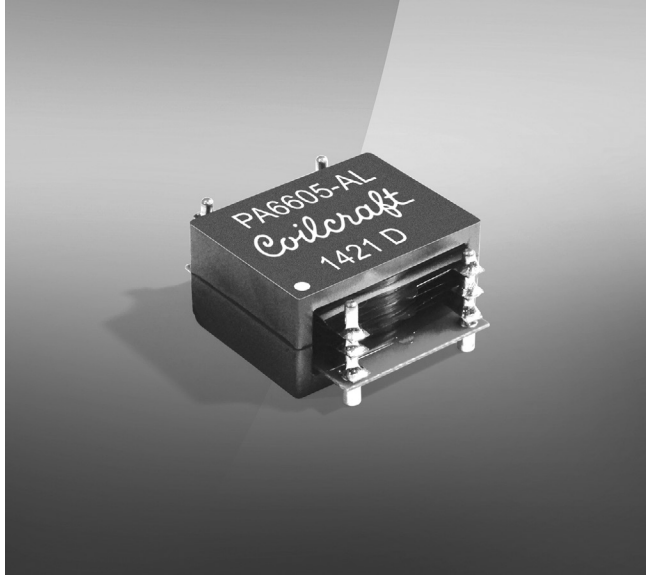




# Planar Transformer

For TI LM5122 Synchronous Flyback Controller



- Designed for Texas Instruments LM5122 Synchronous Flyback Controller with Multiple Phase Capability
- 96% efficiency
- 9.0 – 60 V input; up to 12 V, 5 A output
- 1500 Vrms, one minute isolation (hipot) from primary to secondary; 500 Vrms windings to core

**Core material** Ferrite

**Terminations** Matte tin over nickel over brass.

**Weight** 24 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 parts per tray

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787 PCB Washing.pdf](#).

Part number	Inductance at 0A <sup>1</sup> ±10% (µH)	Inductance at Ipk <sup>2</sup> min (µH)	DCR max <sup>3</sup> (mOhms)	Leakage inductance <sup>4</sup> max (µH)	Ipk <sup>2</sup> (A <sub>dc</sub> )	Output
PA6605-AL	10	9.0	4.7	0.13	12.5	12 V, 5 A

1. Inductance is for the primary and is measured at 250 kHz, 0.1 Vrms.

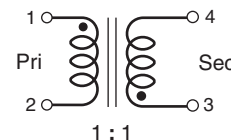
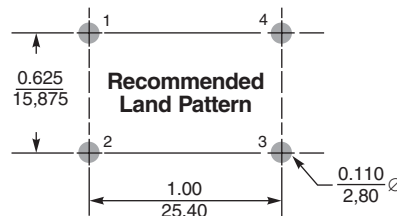
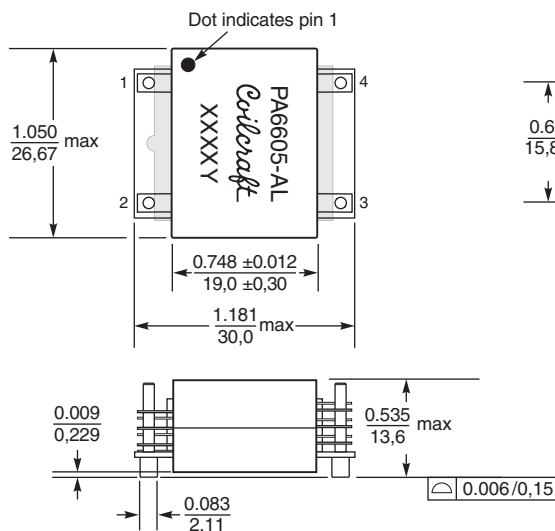
2. Ipk is the current drawn at minimum input voltage

3. DCR is for each winding

4. Leakage inductance is for the primary, measured at 250 kHz, 0.1 Vrms with secondary winding shorted.

5. Electrical specifications at 25°C.

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



Dimensions are in inches  
mm