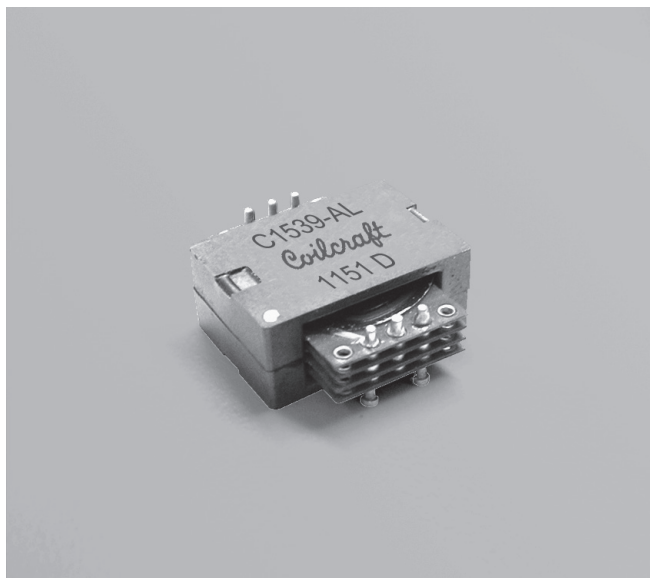




# Planar Transformer

For National Semiconductor  
LM5032 PWM Controller



- Developed for the NSC LM5032 dual interleaved current mode PWM controller for applications up to 100 Watts.
- Can be used in a dual forward converter or in both interleaved power stages of a high-current converter.
- Low leakage inductance, excellent DCR
- Interwinding isolation: 1500 Vdc.

**Core material** Ferrite

**Terminations** RoHS Matte tin over nickel over brass

**Weight** 10.2 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** Only pure water or alcohol recommended

Part number <sup>1</sup>	Output power (W)	Output voltage nom (V)	Output current (A rms)	Primary inductance <sup>2</sup> min (μH)	Leakage inductance <sup>3</sup> max (μH)	DCR max (mOhms)	Turns ratio pri : sec	Pri/sec Isolation (Vdc)
C1539-AL_	100	12	8.33	320.0	0.25	pri: 63.0 sec: 15.0	2 : 1	1500

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

**C1539-ALD**

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

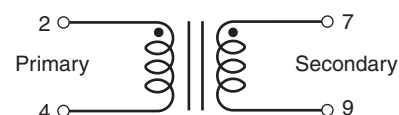
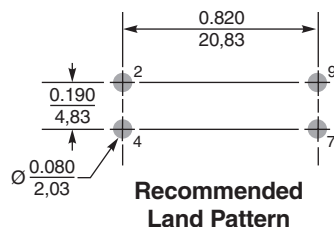
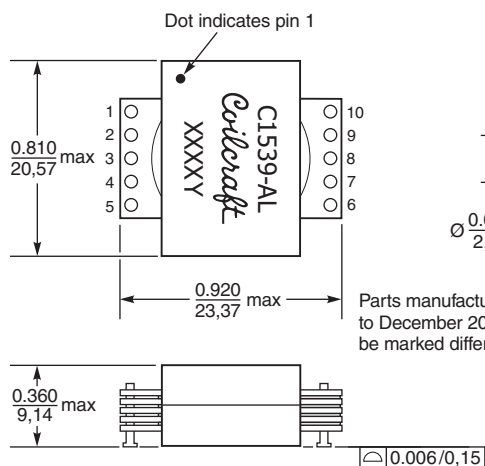
**B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance measured on an Agilent/HP 4284 between pins 2 and 4 at 250 kHz, 0.1 Vrms, 0 Adc.

3. Leakage inductance measured between pins 2 and 4 at 100 kHz, 0.1 Vrms, 0 Adc with pins 7 and 9 shorted.

4. Storage and ambient operating temperature range: -40°C to +85°C.

5. Electrical specifications at 25°C.



Parts manufactured prior to December 2011 may be marked differently.

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



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