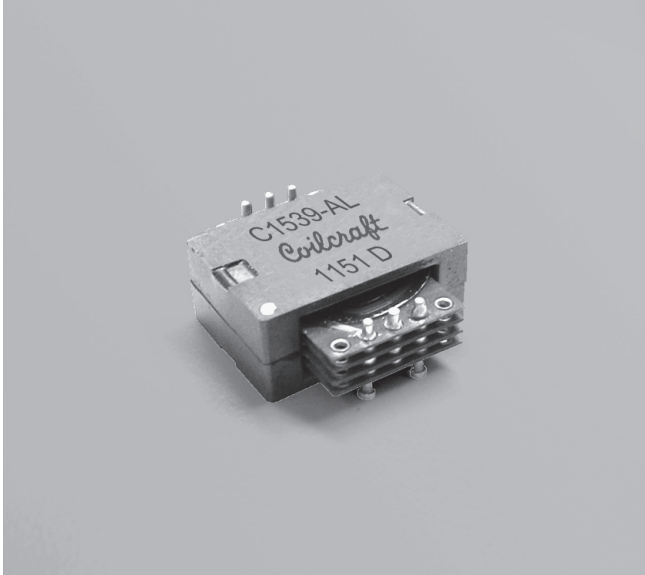




Planar Transformer

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 ¹	Output power (W)	Output voltage nom (V)	Output current (A rms)	Primary inductance ² min (µH)	Leakage inductance ³ 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).

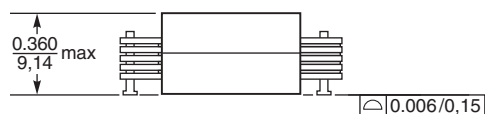
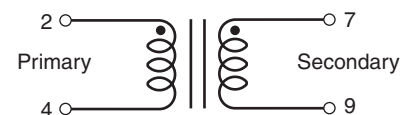
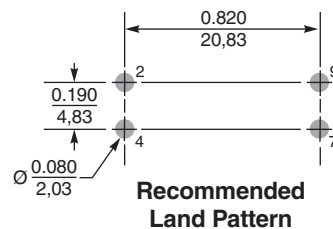
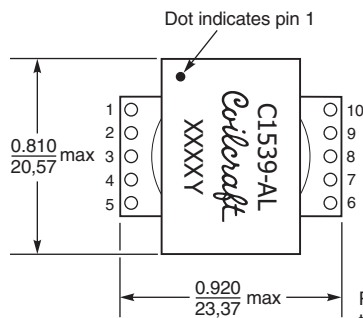
B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

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.



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

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