



Flyback Transformer

For Texas Instruments
LM5000 DC/DC Regulator



This surface mount flyback transformer is designed for use with Texas Instruments LM5000 DC/DC regulator. The core completely encloses the windings to minimize EMI interference. The transformer features very low DCR, 500 Vrms isolation and a leakage inductance rating of just 1.0 μ H. Coilcraft can also custom engineer a transformer to meet your specific requirements.

For free evaluation samples, contact Coilcraft or order them on-line at www.coilcraft.com.

Part number ¹	Inductance ² $\pm 20\%$ (μ H)		Input voltage (V)	Output	DCR max (Ohms)	Leakage Inductance ³ max (μ H)	Turns ratio in:out:aux	Isolation ⁴ (Vrms)
	Pins 1 – 4	Pins 2 – 3						
A0009-AL_	100	100	18 – 55	3.3 V @ 3 A	0.150 (1 – 4) 0.150 (2 – 3) 0.012 (5,6 – 7,8)	1.0	1 : 0.33 : 1	500

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

A0009-ALD

Packaging: **D** = 13" machine ready reel. EIA-481 embossed plastic tape (150 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.

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc.
- Leakage inductance measured at 100 kHz, 0.1 Vrms from pins 1 to 4 with all other pins shorted.
- Isolation measured from pin 1 to pins 5 and 6; from 2 to 5 and 6; and from pins 1, 2, 5 and 6 to the core for one minute.
- Electrical specifications at 25°C.

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

Core material Ferrite

Terminations RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 7.86 g

Ambient temperature -40°C to $+85^{\circ}\text{C}$

Storage temperature Component: -40°C to $+85^{\circ}\text{C}$.
Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$

Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 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 150 per 13" reel Plastic tape: 44 mm wide, 0.5 mm thick, 28 mm pocket spacing, 13.8 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).



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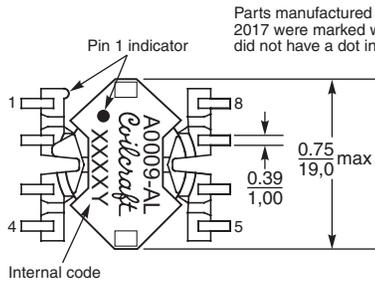
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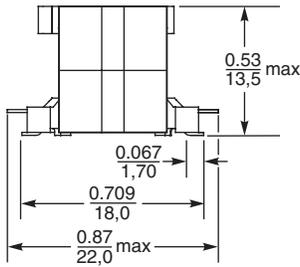
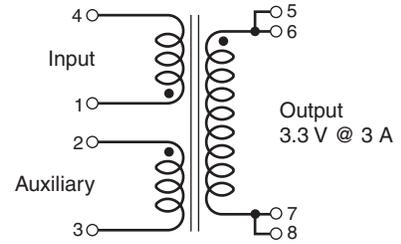
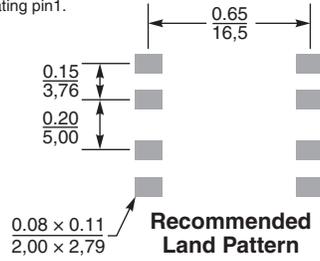
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A0009-AL Flyback Transformer



Parts manufactured prior to February 2017 were marked with a label and did not have a dot indicating pin 1.



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



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