

Flyback Transformer

For National Semiconductor
LM5000 DC/DC Regulator

This surface mount flyback transformer is designed for use with National Semiconductor LM5000 DC/DC regulator. The core completely encloses the windings to mini-

mize EMI interference. The transformer features very low DCR, 500 V isolation and a leakage inductance rating of just 1.0 μH .

Part number	Inductance ¹ $\pm 20\%$ (μH)		Input voltage (V)	Output	DCR max (Ohms)	Leakage Inductance ² max (μH)	Turns ratio in : out : aux	Isolation ³ (Vrms)
	Pins 1 – 4	Pins 2 – 3						
A0009-A	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. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc.

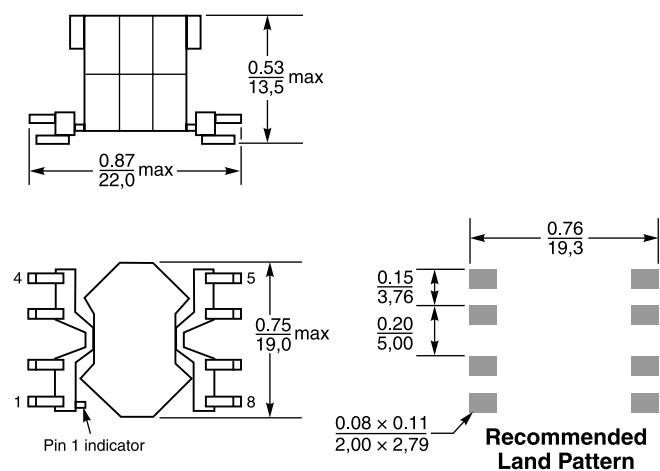
2. Leakage inductance measured at 100 kHz, 0.1 Vrms from pins 1 to 4 with all other pins shorted.

3. 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.

4. Operating temperature range -40°C to $+85^{\circ}\text{C}$.

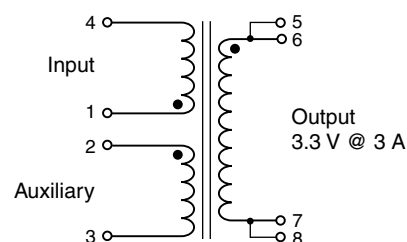
5. Electrical specifications at 25°C .

Dimensions



Packaged 25 parts per tray.

Schematic



Coilcraft[®]

Specifications subject to change without notice. Document 309 Revised 08/23/04

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