

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 minimize EMI interference. The transformer features very low DCR, 500 V 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.

		ctance ² % (µH)	Input		DCR max	Leakage Inductance ³	Turns ratio	Isolation ⁴
Part number ¹	Pins 1 – 4	Pins 2 - 3	voltage (V)	Output	(Ohms)	max (µH)	in:out:aux	(Vrms)
A0009-AL_	100	100	18 – 55	3.3 V @ 3 A	0.150(1-4)	1.0	1:0.33:1	500
					0.150(2-3)			
					0.012(5.6 - 7.8))		

1. When ordering, please specify a packaging code:

A0009-AL D

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.

- 2. 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.
- 4. 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.
- 5. 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°C

Storage temperature Component: -40°C to +85°C.

Packaging: -40°C to +80°C

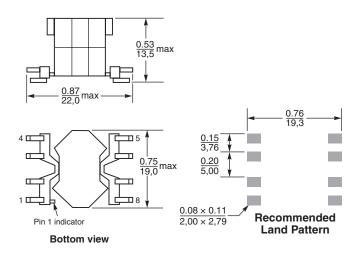
Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

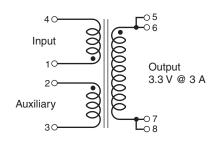
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}$ C / 85% relative humidity)

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 Only pure water or alcohol recommended







Specifications subject to change without notice. Please check our website for latest information.

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