

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 Vrms isolation and a leakage inductance rating of just $1.0\ \mu H.$ 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 ±20% (μH) Pins 1 - 4 Pins 2 - 3		Input voltage (V)	Output	DCR max (Ohms)	Leakage Inductance ³ max (µH)	Turns ratio in:out:aux	Isolation ⁴ (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-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.
- 2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc.
- 3. 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 for one minute.
- 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

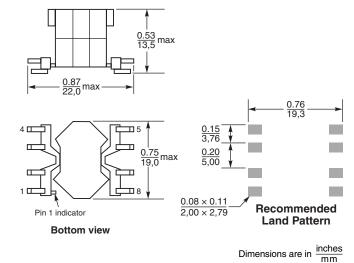
Storage temperature Component: -40°C to +85°C.

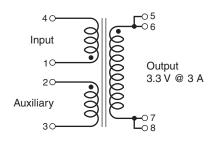
Tape and reel packaging: -40°C to +80°C

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 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







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