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# Planar Magnetics For National Semiconductor LM5041 IC



This planar transformer and inductor pair were designed specifically for National Semiconductor's LM5041 IC.

The A9786-A transformer is engineered for use in high-current telecom power supply applications that require high efficiency in a low-profile package. The auxiliary winding can be used to control input current to PWMs. It offers very high current handling capability and extremely low DC resistance in a low profile package.

Coilcraft's A9787-A inductor is designed as the output choke for the LM5041.

Planar magnetics offer high power densities along with great reliability and repeatability. Windings are etched into a printed circuit board, ensuring high efficiency and consistency.

Request free evaluation samples by contacting Coilcraft or visiting [www.coilcraft.com](http://www.coilcraft.com).

## Transformer

Part number <sup>1</sup>	Output power (W)	Input voltage range (V)	Output voltage (V)	Output current (A rms)	Primary inductance <sup>1</sup> min (mH)	Leakage inductance <sup>2</sup> max (µH)	DCR max (mOhms)	Pri/sec isolation (Vdc)
A9786-AL	150	36 - 75	2.5	60.0	1.25	0.90	Primary: 62.5 (1 - 3) Secondary: 0.91 (5.6 - 9.10) 200 (4 - 11)	1100

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

**A9786-ALD**

**Packaging:** **D** = 13" machine-ready reel. EIA-481 embossed plastic tape (125 parts per full reel).

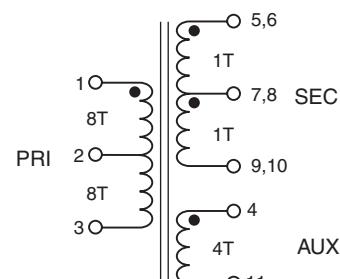
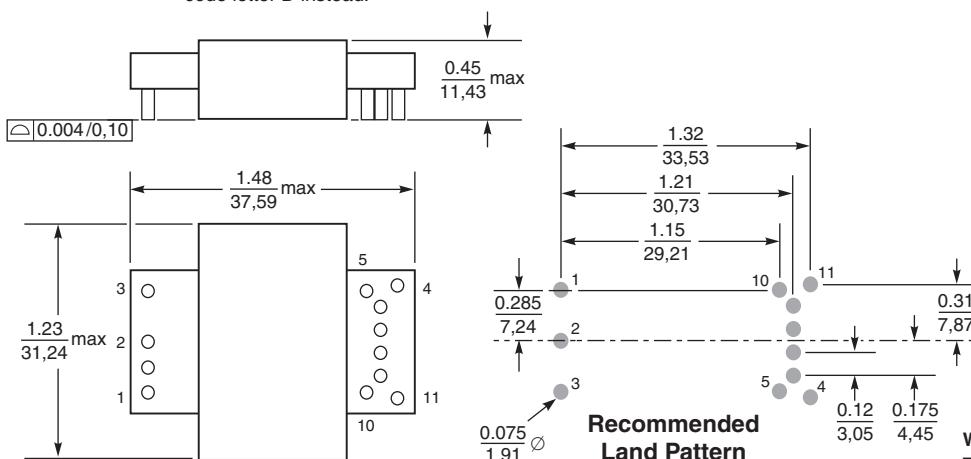
**B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance measured on an Agilent/HP 4284 between pins 1 and 3 at 250 kHz, 0.1 Vrms, 0 Adc.

3. Leakage inductance measured between pins 1 and 3 at 100 kHz, 0.1 Vrms, 0 Adc with all secondary pins shorted.

4. Operating temperature range: -40°C to +85°C.

5. Electrical specifications at 25°C.



Weight: 33.4 g

Terminations: Matte tin over nickel over brass

Tape and reel: 125/13" reel 56 mm tape

# Coilcraft®

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

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# Planar Magnetics for National Semiconductor LM5041

## Output Inductor

Part number <sup>1</sup>	Inductance <sup>2</sup> @ 0 Adc (μH)	Inductance <sup>2</sup> @ 7.5 Adc min (μH)	DCR max (mOhms)	Isolation <sup>3</sup> (Vdc)	Isat <sup>4</sup> (A)	Irms <sup>5</sup> (A)
A9787-AL_	57 ±7%	47.0	17.0	1100	8.1	12.0

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

**A9787-AL D**

**Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (125 parts 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 at 250 kHz, 0.1 Vrms.

3. From pins 1,2 to core.

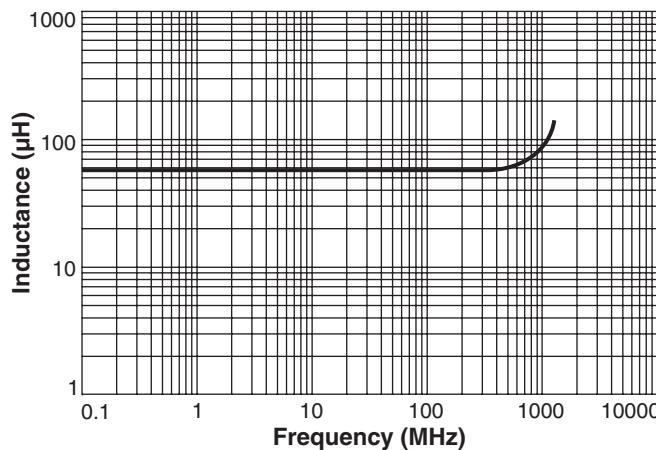
4. DC current at which inductance drops 10% (typ) from its value without current.

5. Average current for a 40°C rise above 25°C ambient.

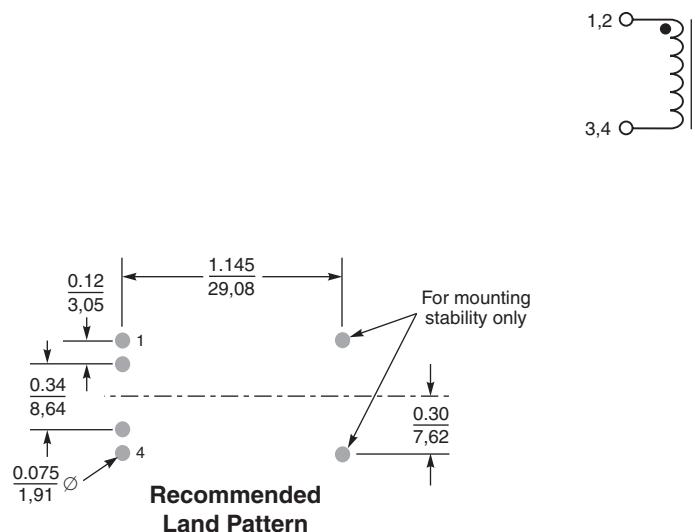
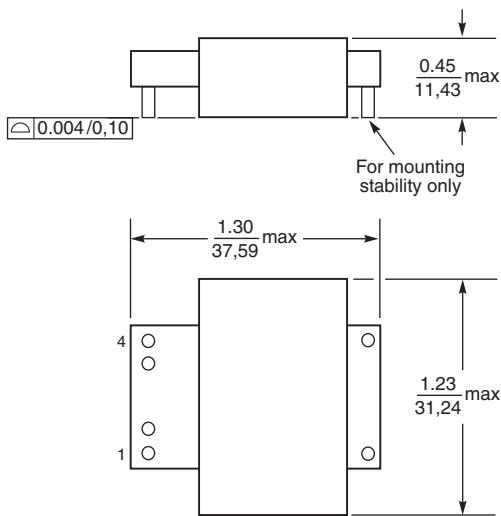
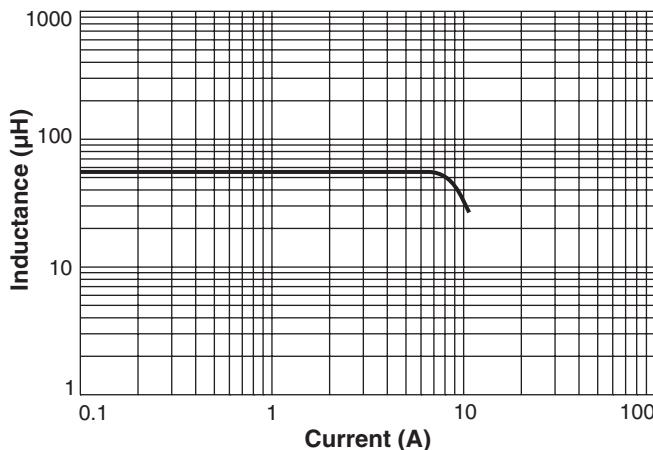
6. Operating temperature range: -40°C to +85°C.

7. Electrical specifications at 25°C.

### Typical L vs Frequency



### Typical L vs Current



Weight: 31.0 g

Terminations: Matte tin over nickel over brass

Tape and reel: 125/13" reel 56 mm tape

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