


**NEW!**

# SMT Gate Drive Transformer



The FA2659-AL gate drive transformer is designed for high switching speed, transformer coupled MOSFET and IGBT gate drive circuits operating from 50 kHz to as high as 2 MHz. It offers low leakage inductance, excellent interwinding capacitance and 2250 Vdc primary to secondary isolation. The miniature surface mount package requires only 56 mm<sup>2</sup> of board space, allowing for high density mounting.

This transformer is specified by National Semiconductor on AN-1521 for their POE+PHYTEREV-I/-E evaluation boards.

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

Part number <sup>1</sup>	Turns ratio	Primary inductance <sup>2</sup> min (μH)	Leakage inductance <sup>3</sup> max (μH)	Primary DCR max (Ohms)	Secondary DCR max (Ohms)	Volt-time product <sup>4</sup> (V-μsec)	SRF min <sup>5</sup> (MHz)	Capacitance pri to sec max (pF)
FA2659-AL_	1 : 1	296.0	1.5	0.795	0.655	34.2	1.39	21.9

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

**FA2659-ALC**

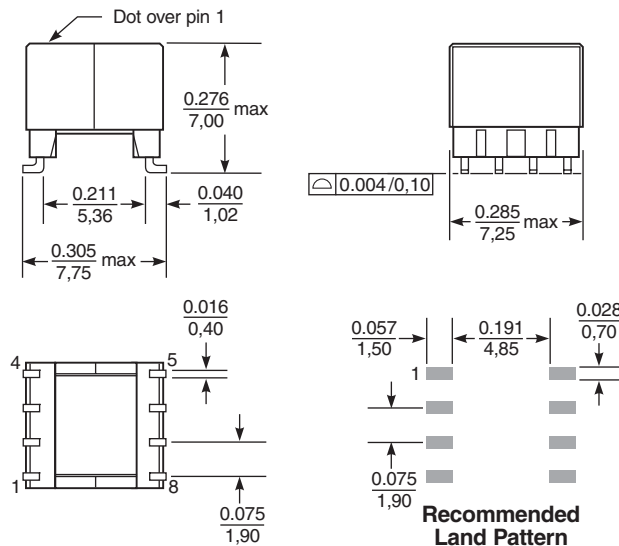
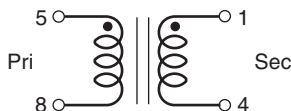
**Packaging:** **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (150 parts per full reel).

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

**D** = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (750 parts per full reel).

- Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc
- Leakage inductance measured at 100 kHz, 0.1 Vrms with secondary pins shorted.
- Based on Bs<sub>at</sub> of the core at 25°C and number of turns of the primary.
- SRF measured with coils connected in series using an Agilent/HP 4192 or equivalent.
- Operating temperature range -40°C to +125°C.
- Electrical specifications at 25°C.

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



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

**Weight:** 700 mg

**Terminations:** Tin-silver over tin over nickel over phos bronze

**Tape and reel:** 175/7" reel; 750/13" reel 16 mm tape width

## Coilcraft®

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

Document 561 Revised 10/03/07

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>