

**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 mm² 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.

Part number ¹	Turns ratio	Primary inductance ² min (μH)	Leakage inductance ³ max (μH)	Primary DCR max (Ohms)	Secondary DCR max (Ohms)	Volt-time product ⁴ (V-μsec)	SRF min ⁵ (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).

2. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc

3. Leakage inductance measured at 100 kHz, 0.1 Vrms with secondary pins shorted.

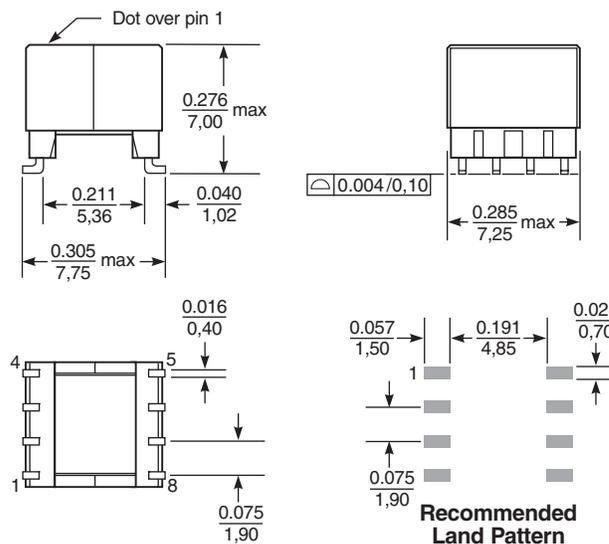
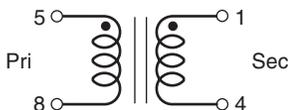
4. Based on Bs_{at} of the core at 25°C and number of turns of the primary.

5. SRF measured with coils connected in series using an Agilent/HP 4192 or equivalent.

6. Operating temperature range -40°C to +125°C.

7. 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.

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