

SMT Gate Drive Transformer



- Designed for transformer coupled MOSFET and IGBT gate drive circuits; operating frequency: 50 kHz to 2 MHz.
- 2250 Vdc primary to secondary isolation
- Requires only 56 mm² of board space.
- Specified by National Semiconductor on AN-1521 for their POE+PHYTEREV-I/-E evaluation boards.

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over nickel over phos bronze

Weight 700 mg

Ambient temperature -40°C to +125°C

Storage temperature Component: -40°C to +125°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°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 175/7" reel; 750/3" reel Plastic tape: 16 mm wide, 0.36 mm thick, 12 mm pocket spacing, 7.24 mm pocket depth

PCB washing Only pure water or alcohol recommended

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

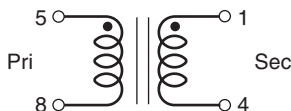
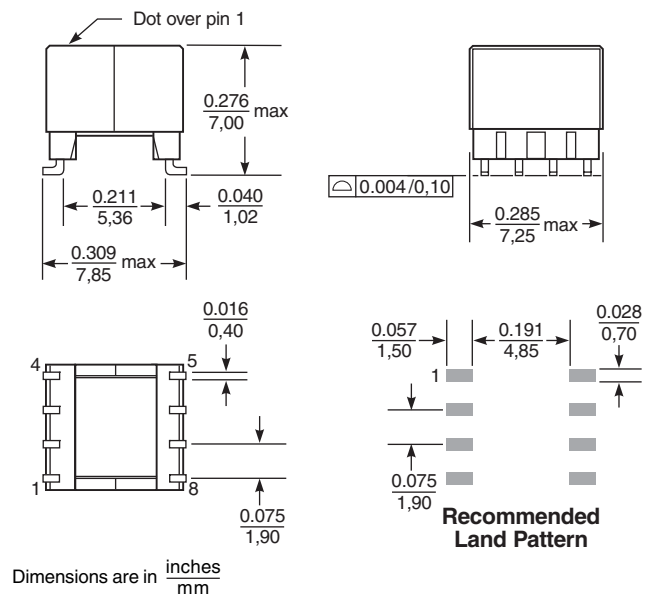
3. Leakage inductance measured at 100 kHz, 0.1 Vrms with secondary pins shorted.

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. Electrical specifications at 25°C.

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



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