



SMT Power Transformer

For Analog Devices ADM2482E and
ADM2487E RS-485 Transceivers



- Designed specifically for use with Analog Devices ADM2482E and ADM2487E High Speed, Isolated RS-485 Transceivers with Integrated Transformer Driver
- Center tapped primary and secondary
- 2500 Vrms primary to secondary isolation

Core material Ferrite

Terminations RoHS compliant tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 1.0 g

Ambient temperature -40°C to $+125^{\circ}\text{C}$

Storage temperature Component: -40°C to $+125^{\circ}\text{C}$.

Tape and reel packaging: -40°C to $+80^{\circ}\text{C}$

Resistance to soldering heat Max three 40 second reflows at $+260^{\circ}\text{C}$, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}\text{C}$ / 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 600 per 13" reel; Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Pri/sec voltage	Inductance ² min (μH)	DCR max (Ohms) ³ 1/2 pri 1/2 sec	Leakage inductance ⁴ max (μH)	Volt-time product ⁵ (V- μsec)	Power ⁶ (W)	Turns ratio pri : sec
GA3157-AL_	5 V to 3.3 V	45.6	0.130 0.155	1.14	34.4	7.2	1 : 0.88

1. When ordering, please specify **termination** and **packaging** codes:

GA3157-ALD

Termination: L = RoHS compliant tin-silver over tin over nickel over phos bronze.

Special order: T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (600 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 is tested between pins 4 and 3 at 500 kHz, 0.5 Vrms, 0 Adc.

3. DCR is for each half of the primary and secondary.

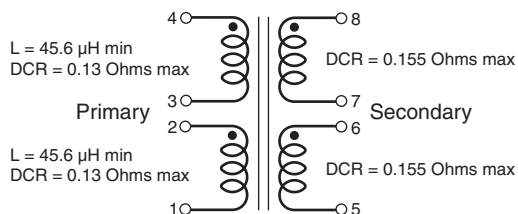
4. Leakage inductance is for the primary with both windings connected in series and with the secondary windings shorted.

5. Based on Bs_{at} of the core at 25°C and number of turns on winding 4-3.

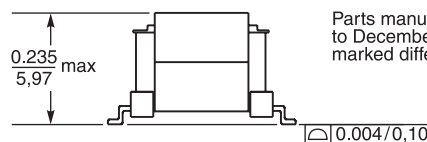
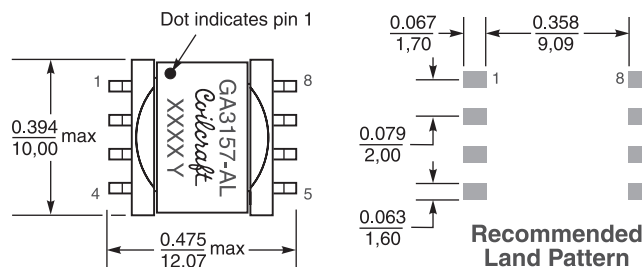
6. Calculated output power based on 150 kHz operating frequency. Power varies depending on application.

7. Electrical specifications at 25°C .

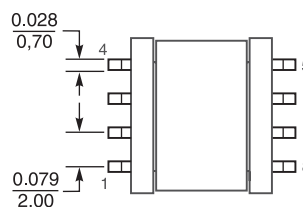
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Primary windings and secondary windings to be connected in series on the PC board.



Parts manufactured prior to December 2011 may be marked differently.



Dimensions are in inches/mm