### 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 phosphor bronze. Other terminations available at additional cost.

#### Weight
- 1.0 g

#### Ambient temperature
- –40°C to +125°C

#### Storage temperature
- Component: –40°C to +125°C.
- Tape and reel 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
- 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.

### Electrical Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Pri/sec voltage</th>
<th>Inductance min (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance max (µH)</th>
<th>Volt-time product (V-µsec)</th>
<th>Power max (W)</th>
<th>Turns ratio (sec: pri)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GA3157-AL_</td>
<td>5 V to 3.3 V</td>
<td>45.6</td>
<td>0.130</td>
<td>0.155</td>
<td>1.14</td>
<td>34.4</td>
<td>7.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.130</td>
<td></td>
<td></td>
<td></td>
<td>1: 0.88</td>
</tr>
</tbody>
</table>

1. When ordering, please specify termination and packaging codes:
   - L = RoHS compliant tin-silver over tin over nickel over phosphor bronze.
   - Special order: T = RoHS tin-silver-copper (95.5/0.5) 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 with the secondary windings shorted.
5. Based on Bsat 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.

![Coilcraft Logo]

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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice.

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