## Isolation Transformers

- Optimized for Texas Instrument SN6507 transformer driver
- Low profile and center-tapped push-pull transformers for isolated power supply
- High Frequency Operation up to 1 MHz
- 2500 Vrms, one minute high isolation (hipot) winding to winding

### Core material
- Ferrite

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

### Weight
- 0.91 – 1.1 g

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

### Maximum part temperature
- +165°C (ambient + temp rise)

### 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)

### Packagings
- 600/13″ reel
  - Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket dept
- PCB washing
  - Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

### Technical Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Pri / sec voltage</th>
<th>Inductance</th>
<th>DCR max (Ohms)</th>
<th>Leakage inductance</th>
<th>Volt-time product</th>
<th>Power</th>
<th>Turns ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>TX1-ZB1445-CED</td>
<td>12 V to 15 V</td>
<td>99.7</td>
<td>0.087</td>
<td>0.135</td>
<td>0.25</td>
<td>22</td>
<td>7.5</td>
</tr>
<tr>
<td>TX1-ZC1892-AED</td>
<td>12 V to 30 V</td>
<td>99.7</td>
<td>0.102</td>
<td>0.240</td>
<td>1.0</td>
<td>22</td>
<td>15.0</td>
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<tr>
<td>TX1-ZB1459-BED</td>
<td>24 V to 15 V</td>
<td>196</td>
<td>0.115</td>
<td>0.098</td>
<td>1.0</td>
<td>30</td>
<td>7.5</td>
</tr>
<tr>
<td>TX1-ZC1891-AED</td>
<td>24 V to 30 V</td>
<td>196</td>
<td>0.134</td>
<td>0.163</td>
<td>1.0</td>
<td>30</td>
<td>15.0</td>
</tr>
</tbody>
</table>

1. **Packaging:** D = 13″ machine ready reel. EIA-481 embossed plastic tape (600 per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance is for the primary, measured between pins 4 and 1 with pins 2 and 3 connected at 1 MHz, 0.1 Vrms, 0 Adc.
3. DCR is per winding.
4. Leakage inductance is for the primary with both windings connected in series and with the secondary windings shorted.
5. Volt-time product is for the primary, between pins 4 and 1 with pins 2 and 3 connected.
6. Calculated Output Power will vary depending upon application.
7. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.