**NEW!**

25 W Forward Mode Transformer for TI TPS23754 PWM Controller

- Designed for forward topology operating at 250 kHz
- Developed for use with Texas Instruments TPS23754 PWM Controller
- 20 – 57 V input; excellent for PoE applications
- 1500 Vrms, one minute isolation primary and bias to secondary

**Core material** Ferrite

**Terminations** RoHS tin-silver-copper over tin over nickel over phosphorous. Other terminations available at additional cost.

**Weight** 6.7 g

**Ambient temperature** -40°C to +85°C

**Maximum part temperature** +125°C (ambient + temp rise)

**Storage temperature** Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Mean Time Between Failures (MTBF) / Failures in Time (FIT)**

Calculated per Telcordia SR-322 26,315,789 hours / 38 per billion hours

**Packaging**

- Component: –40°C to +125°C.
- Tape and reel packaging: –40°C to +80°C

**Parts shown are preproduction products available for evaluation only.**

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (^1) (µH)</th>
<th>DCR max (^2) (mOhms)</th>
<th>Leakage inductance (^3) max (µH)</th>
<th>Input voltage range (V)</th>
<th>Turns ratio (^4)</th>
<th>Output (^5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA8515-ALD</td>
<td>90</td>
<td>146</td>
<td>25</td>
<td>494</td>
<td>0.816</td>
<td>20 – 57</td>
</tr>
</tbody>
</table>

1. Inductance is measured at 250 kHz, 0.1 Vrms, 0 Adc.
2. DCR for the secondary is measured with the windings connected in parallel.
3. Leakage inductance is for the primary and is measured with the secondary shorted.
4. Turns ratio is with the secondary windings connected in parallel.
5. Output is with the secondary windings connected in parallel. Bias winding output is 12 V, 20 mA.
6. Electrical specifications at 25°C.

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

**Recommended Land Pattern**

- Dimensions are in inches

- Dot above pin 1 for TI TPS23754 PWM Controller

Secondary windings to be connected in parallel on PC board.

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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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