SMT Power Transformers

- Center tapped primary and secondary windings
- AEC-Q200 Grade 1 (–40°C to +125°C)
- 2500 Vrms, one minute interwinding isolation.
- Contact us for 8 mm creepage and clearance options.

Core material: Ferrite
Terminations: RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight: 0.94 – 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 reflo ws at +260°C, parts cooled to room temperature between cycles
Moisture Sensitivity Level (MSL): 1 (unlimited floor life at <30°C / 85% relative humidity)
Packaging: 600/13” reel Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket depth
PCB washing: Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

### Part number¹ Pri/sec voltage Inductance² min (µH) DCR max (Ohms)³ pri sec Leakage inductance² max (µH) Volt-time product⁵ (V-µsec) Power⁶ (W) Turns ratio Pri : sec

<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 (W)</th>
<th>Turns ratio Pri : sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA2303-AL_</td>
<td>5 V to 6 V</td>
<td>45.6</td>
<td>0.130</td>
<td>0.260</td>
<td>34.4</td>
<td>7.2</td>
<td>1:1.5</td>
</tr>
<tr>
<td>DA2304-AL_</td>
<td>3.3 V to 6 V</td>
<td>17.8</td>
<td>0.086</td>
<td>0.232</td>
<td>21.5</td>
<td>7.2</td>
<td>1:2.2</td>
</tr>
</tbody>
</table>

1. When ordering, please specify termination and packaging codes:
   - **L** = RoHS compliant tin-silver over tin over nickel over phos bronze.
   - **T** = RoHS tin-silver-copper (95.5/4/0.5) or non-RoHS tin-lead (63/37).
   - **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).
   - **B** = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance is tested between pins 4 and 3 at 500 kHz, 0.5 Vrms, 0 Adc. DCR is per winding.
3. Leakage inductance is for the primary with both windings connected in series and with the secondary windings shorted.
4. Volt-time product is for the primary, between pins 4 and 1 with pins 2 and 3 connected.
5. Calculated output power based on 150 kHz operating frequency.
6. Power varies depending on application.

Electrical specifications at 25°C. Refer to Doc 362 “Soldering Surface Mount Components” before soldering.