PoE Transformers
For ST Microelectronics
STE12PS PSE Power Controller

These surface mount flyback transformers were developed specifically for the ST Microelectronics STE12PS 12-Channel PSE Power Control Device.

They are designed to work with a 3.3 V input to provide a 12 V output. Isolation is 500 Vdc from each primary winding to the secondary winding.

Coilcraft can also design custom transformers with voltage, inductance and DCR values to meet your specific requirements.

For free evaluation samples, contact Coilcraft or order them on-line at www.coilcraft.com.

<table>
<thead>
<tr>
<th>Part number</th>
<th>L at 0 A ±10% (µH)</th>
<th>L at Ipk min (µH)</th>
<th>DCR max (Ohms) 1-5 2-6 12-7</th>
<th>Leakage L max (µH)</th>
<th>Turns ratio pri : sec</th>
<th>Ipk (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA2420-AL_</td>
<td>330</td>
<td>297</td>
<td>0.756 0.886 5.920</td>
<td>6.00</td>
<td>1 : 2</td>
<td>2.0</td>
<td>12 V, 100 mA</td>
</tr>
<tr>
<td>DA2421-AL_</td>
<td>330</td>
<td>297</td>
<td>0.803 0.984 14.145</td>
<td>4.83</td>
<td>1 : 3</td>
<td>2.0</td>
<td>12 V, 100 mA</td>
</tr>
</tbody>
</table>

1. When ordering, please specify a packaging code:
   - DA2420-ALD
   - DA2421-ALB
   - DOT indicates pin 1

2. Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc.

3. Ipk is the peak current drawn at minimum input voltage.

4. Leakage inductance measured on the primary windings with all secondary pins shorted.

5. Turns ratio is with the primary windings connected in parallel.

6. Operating temperature range -40°C to +125°C.

7. Electrical specifications at 25°C.

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

Primary windings to be connected in parallel on the PC board.

Weight 14.1 – 14.6 g
Terminations Tin-silver over tin over nickel over phos bronze
Tape and reel 175 per 13” reel Plastic tape: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.9 mm pocket depth