Forward Mode Transformer
For Maxim MAX17599 PWM Controller

- Forward mode transformer for the Maxim MAX17599 Active Clamp Current-Mode PWM Controller
- 18 – 36 V input; 12 V, 3.3 A output
- 1500 Vrms, one minute isolation from primary to secondary and gate windings
- Specified on reference design MAXREFDES48#

Core material  Ferrite
Terminations  RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze.
Weight  10.5 g
Ambient temperature  –40°C to +85°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)
Packaging  175 per 13” reel  Plastic tape: 44 mm wide, 0.4 mm thick, 28 mm pocket spacing, 11.9 mm pocket depth
PCB washing  Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance at 0 A² min (µH)</th>
<th>DCR max (mOhms)</th>
<th>Leakage inductance max (µH)</th>
<th>Turns ratio</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>RA6999-AL</td>
<td>70</td>
<td>20.5</td>
<td>29.5</td>
<td>36.4</td>
<td>0.35</td>
</tr>
</tbody>
</table>

1. When ordering, please specify a packaging code:

RA6999-ALD
Packaging:  D = 13” machine ready reel. EIA-481 embossed plastic tape (175 parts 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 measured at 250 kHz, 0.1 Vrms.
3. Output is for the secondary winding. Output of the gate winding is 4 V, 0.25 A
4. Electrical specifications at 25°C.

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

Dimensions are in inches mm

Coilcraft
www.coilcraft.com

US  +1-847-639-6400  sales@coilcraft.com
UK  +44-1236-730595  sales@coilcraft-europe.com
Taiwan  +886-2-2264 3646  sales@coilcraft.com.tw
China  +86-21-6218 8074  sales@coilcraft.com.cn
Singapore  +65-6484 8412  sales@coilcraft.com.sg

© Coilcraft Inc. 2022
This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check web site for latest information.