Fly-Buck™ Transformer

For Texas Instrument PMP30227
Isolated Power Supply

- Developed for use with Texas Instrument PMP30227 Automotive
  Isolated 15 V/4.5 W Bias Power Supply
- 2500 Vrms, one minute isolation from primary to secondary
- Designed to meet basic insulation class with 3 mm creepage
  and clearance

Core material  Ferrite
Terminations  RoHS tin-silver-copper (95.5/3.8/0.7) over tin over
nickel over phos bronze.
Weight  5.23 g
Ambient temperature  −40°C to +125°C
Maximum part temperature  +165°C
Storage temperature  Component: −40°C to +165°C.
Tape and reel packaging: −40°C to +65°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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF)
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging  600 per 13” reel Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket depth
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

<table>
<thead>
<tr>
<th>Part number¹</th>
<th>Input voltage (V)</th>
<th>Inductance² ±10% (µH)</th>
<th>DCR max (Ohms)</th>
<th>Leakage max (µH)</th>
<th>Turns ratio pri:sec</th>
<th>Isolation³ (Vrms)</th>
<th>Isat⁴ (A)</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA8417-AL</td>
<td>8 – 28</td>
<td>47.0</td>
<td>0.185</td>
<td>0.42</td>
<td>1 : 2</td>
<td>2500</td>
<td>2.8</td>
<td>15 V, 0.3 A</td>
</tr>
</tbody>
</table>

1. When ordering, specify a packaging code:

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).
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 for the primary, measured on an Agilent/HP 4284 at 400 kHz, 0.6 Vrms, 0 Adc.
3. Leakage inductance measured between pins 3 and 4 at 400 kHz, 0.6 Vrms, 0 Adc with pins 10 and 9 shorted.
4. Isolation (hipot) measured between windings for one minute.
5. DC current that causes an inductance drop of 30% (typ) from its value without current.
6. Electrical specifications at 25°C.
Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Recommended Land Pattern

Dimensions are in inches

Fly-Buck™ is a trademark of Texas Instrument Incorporated