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 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)
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.

Part number
WA8417-AL
Input voltage
8 – 28
Inductance
47.0 ±10% (µH)
DCR max
0.185 (Ohms) pri 0.37 sec
Leakage inductance
0.42 (µH) pri 0.42 sec
Turns ratio
1 : 2
Isolation
2500 (Vrms) pri 2.8 sec
Isat
15 V, 0.3 A

1. When ordering, specify a packaging code:
   - WA8417-ALD
   - 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 mm

Fly-Buck™ is a trademark of Texas Instrument Incorporated

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