Flyback Transformer

For TI LM5071 & LM5072 PD Controllers

- Dual-output flyback transformer for Power over Ethernet
- Operates in continuous mode at 250 kHz with 14 – 60 V input
- 2000 Vrms isolation from primary and auxiliary to secondaries

Core material  Ferrite
Terminations  RoHS compliant tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.
Weight  6.35g
Ambient temperature  –40°C to +85°C
Storage temperature  Component: –40°C to +85°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)
Failures in Time (FIT) / Mean Time Between Failures (MTBF)  38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging  175 per 13” reel. Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 12.93 mm pocket depth
PCB washing  Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number1  DA2257-AL
L at 0 A2  ±10% (µH) 35.0
L at Ipk3 (µH) 30.0
DCR max (Ohms)  0.225 (aux)
  0.138 (gate)
  0.010 (sec 1)
  0.018 (sec 2)
  0.062 (pri)
Leakage L4 max (µH)  0.95
  2 : 1 (pri : aux)
  3.6 : 1 (pri : gate)
  6 : 1 (pri : sec1)
  3.6 : 1 (pri : sec 2)
Ipk3 (A)  2.7
  10 V, 0.05 A (aux)
  5.5 V, 0.05 A (gate)
  3.3 V, 2.0 A (sec 1)
  5.0 V, 1.0 A (sec 2)
Turns ratios
Outputs

1. When ordering, please specify packaging code:
   DA2257-ALD

   Packaging: D = 13” machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).
   B = Less than full reel. In tape, but not machine ready.
   To have a leader and trailer added ($25 charge), use code letter D instead.

2. Inductance is for the primary, measured at 250 kHz, 0.2 Vrms, 0 Adc.
3. Ipk is peak primary current drawn at minimum input voltage.
4. Leakage inductance is for the primary winding with all other pins shorted.
5. Electrical specifications at 25°C.

Dimensions are in inches

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

www.coilcraft.com

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