

Flyback Transformer For Texas Instruments PMP7899 Reference Design



- Developed for Texas Instruments PMP7899 Reference Design for Non-Synchronous Flyback Converter with an Isolated Output
- 8 18 V input; 48 V, 1 Å output
- Aux winding output 9 V, 20 mA
- 1500 Vrms, one minute primary and aux to secondary isolation (hipot)

Core material Ferrite

Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze. Other terminations available at additional cost. **Weight** 25.9 g

Ambient temperature -40°C to +125°C

Maximum part temperature +125°C (ambient + temp rise) **Storage temperature** Component: -40°C to +125°C. Tray 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 24 parts per tray

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

| Part number | Inductance at 0 Adc¹ ±15% (μH) | Inductance at Ipk ² min (µH) | DCR max (Ohms) | Leakage Inductance ³ max (µH) | pri : sec | <u>s ratio</u> pri : aux | Ipk² (A) | Output ⁴ |
|----------------|--------------------------------------|---|--|--|---------------|-----------------------------|-------------|----------------------------|
| NA6264-AL | 2.56 | 2.176 | 0.0065 (pins 1–3) 0.0065 (pins 2–4) 0.130 (pins 5–6) | 0.060 | 1:6 | 1:1.5 | 16.5 | 48 V, 1 A |

0.110 (pins 11-8)

- 1. Inductance is for the primary with windings connected in parallel, measured at 300 kHz, 0.3 Vrms.
- 2. Peak primary current drawn at minimum input voltage.
- Leakage inductance is for the primary with the windings connected in parallel and with the secondary winding shorted.
- 4. Output is for the secondary. Aux winding output is 9 V, 20 mA.
- 5. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Primary windings to be connected on the PC board.





Dot indicates pin 1



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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