Flyback Transformers

For TI TPS23754
PoE Interface

- Developed for Texas Instruments TPS23754 High Power, High Efficiency PoE Interface and DC/DC Controller
- Input: 33 – 57 V
- 1500 Vrms isolation from primary and bias to secondary

Core material: Ferrite
Terminations: RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze.
Weight: 12.0 g

Ambient temperature: –40°C to +125°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 refloys 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: 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

1. When ordering, please specify a packaging code:

   JA4372-AL

   JA4387-AL

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 measured at 250 kHz, 0.1 Vrms, 0 Adc.
3. Peak primary current drawn at minimum input voltage.

- DCR for the primary and the secondary is measured with windings connected in parallel.
- Leakage inductance is for the primary, measured with the windings connected in parallel and the secondary windings shorted.
- Turns ratio is with the primary windings and secondary windings connected in parallel.
- Output is with the secondary windings connected in parallel. Output of the drive winding is 6 V, 10 mA. Output of the bias winding is 11.2 V, 20 mA.
- Electrical specifications at 25°C.
- Refer to Doc 362 “Soldering Surface Mount Components” before soldering.