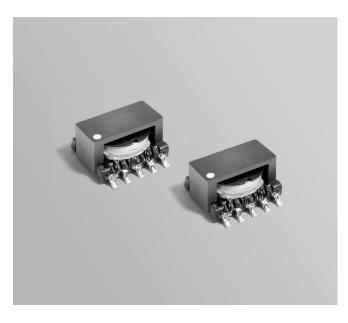


Flyback Transformer For Texas Instruments TPS23750 PoE Powered Device Controller



- Isolated non-synchronous flyback transformers developed for Texas Instruments PMP717 reference design.
- Designed for discontinuous conduction mode, 34 57 V input
- 1500 Vrms isolation primary to secondary windings

Core material Ferrite

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

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 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 500 per 13" reel Plastic tape: 24 mm wide, 0.36 mm thick, 16 mm pocket spacing, 6.13 mm pocket depth

PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part number ¹	Inductance at 0 Adc ² ±10% (µH)	Inductance at Ipk ³ min (µH)	DCR max (Ohms)	Leakage Inductance ⁴ max (µH)	Turns	ratio pri : bias	Ipk ³ (A)	Output ⁶
C1453-AL_	50	40	0.185 (pins 3 – 1) 0.030 (pins 6 – 10)	1.10	1:0.166	1:0.5	1.22	3.3 V, 1.5A
			0.030 (pins 7 - 9) 0.385 (pins 4 - 5)					

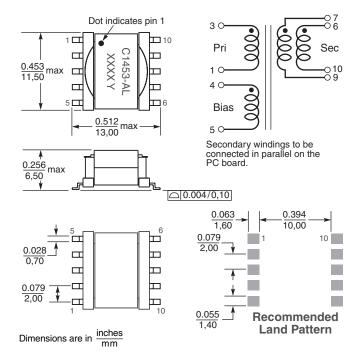
1. When ordering, please specify packaging code:

C1453-ALD

Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (500 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, 0.3 Vrms.
- 3. Peak primary current drawn at minimum input voltage.
- 4. Leakage inductance is for the primary winding with the secondary wind-
- 5. Turns ratio is with the secondary windings connected in parallel.
- 6. Output of the secondary is with the windings connected in parallel. Bias winding output is 10 V.
- 7. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.





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