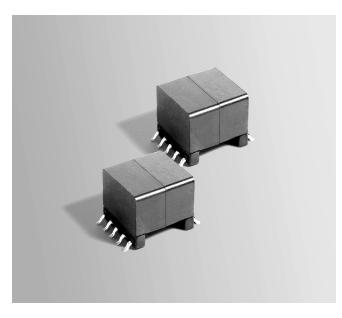
## Flyback Transformer For Texas Instruments TPS23753A PoE controller



- Flyback transformer for 10 W PoE applications
- Developed to work with TITPS23753A PoE controller (PMP8896 and PMP9175 Reference Design)
- 1500 Vrms isolation from primary and bias to secondary and sync

## Core material Ferrite

Terminations RoHS tin-silver (96.5/3.5) over tin over nickel over phos bronze.

Weight 6.2 g

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 with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf

Part	L at 0A <sup>2</sup>	L at Ipk <sup>3</sup>	DCR max (Ohms) <sup>4</sup>				Leakage inductance	Turns ratio <sup>6</sup>			
number <sup>1</sup>	±10% (μΗ)	min (µH)	pri	sec	bias	sync	max (µH)⁵	pri : sec	pri : bias	pri : sync	Output <sup>7</sup>
NA6223-AL_	180	162	0.330	0.0135	0.230	0.190	1.20	1:0.167	1:0.361	1:0.167	5.0 V, 2.0 A

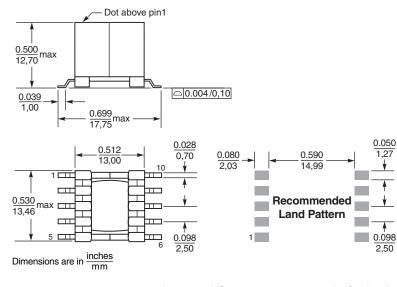
1. When ordering, please specify packaging code:

## NA6223-ALD

Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

- $\mathbf{B}$  = 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 1 kHz, 0.5 Vrms, 0 Adc.
- 3. Peak primary current (1.1 A) drawn at minimum input voltage.
- 5. Leakage inductance measured between pins 1 and 2 with all other windings shorted.
- 6. Turns ratio is with the primary windings connected in series.
- 7. Output is between pins 7 and 10. Bias winding output is 10 V, 20 mA. Sync winding output is a 5 V Sync FET gate drive signal.

8. Electrical specifications at 25°C





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4. DCR for the primary is from pin 1 to pin 2.

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

