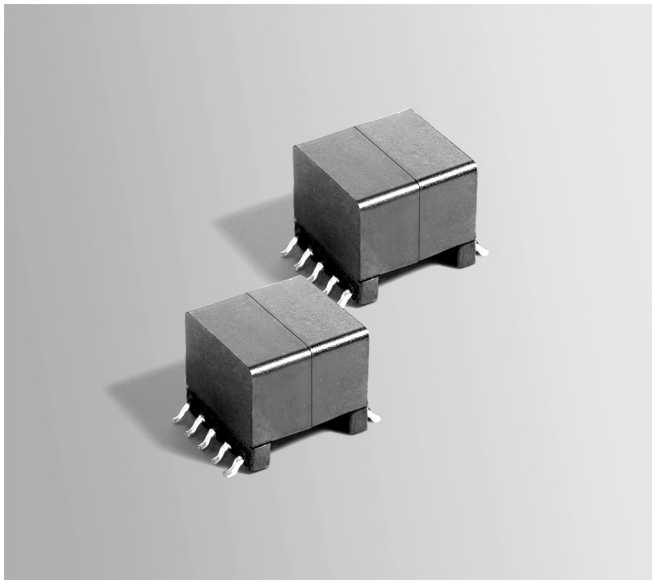
Flyback Transformer

For Texas Instruments TPS23753A PoE controller



- Flyback transformer for 10 W PoE applications
- Developed to work with TI TPS23753A 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, 0.6 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 number[1]	L at 0A[2] ±10% (µH)	L at Ipk[3] min (µH)	DCR max (Ohms)[4] pri	sec	bias	sync	Leakage inductance max (µH)[5]	Turns ratio[6] pri : sec	pri : bias	pri : sync	Output[7]
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:

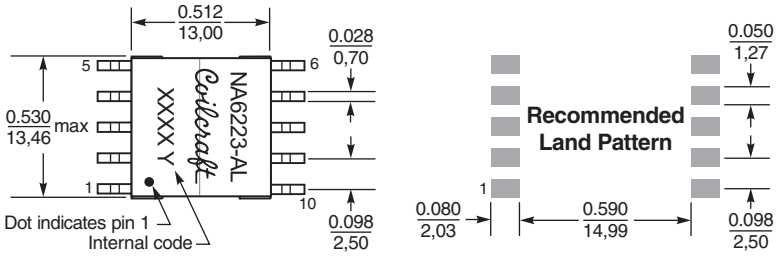
NA6223-ALD

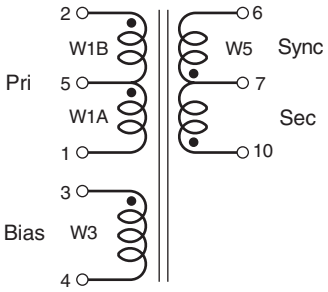
Packaging: D = 13″ machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).

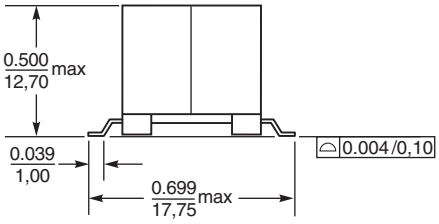
B = Less than full reel. In an effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

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

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.







Dimensions are in inches / mm

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