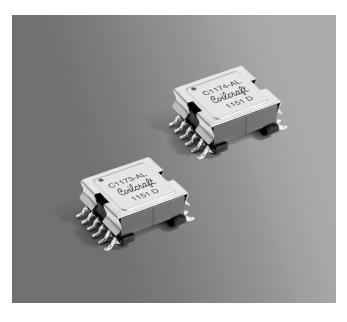


Flyback Transformers For Texas Instruments TPS23750 PoE Powered Device Controller



- Isolated synchronous flyback transformers developed for Texas Instruments PMP929 reference design.
- Operates up to 500 kHz with 18 72 V input
- 1500 Vrms, one minute isolation primary and bias to secondary

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 5.0 - 5.3 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 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 200 per 13" reel Plastic tape: 44 mm wide, 0.35 mm thick, 28 mm pocket spacing, 9.6 mm pocket depth PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787_PCB_Washing.pdf

Part	Lat0A ² LatIpk ³ ±10% min		DCR max (Ohms)				Leakage L⁵ max (µH)		Turns ratio			Ipk ³		Drive
number ¹	(µH)	(µH)	pri	Sec ⁴	drive	bias	pri	drive	pri:sec6	pri:drive	pri:bias	(Å)	Output ⁷	output
C1173-AL_	166.5	150.0	0.770	0.020	0.523	1.12	2.50	0.400	6.5 : 1	3.7 : 1	2.0:1	1.2	3.3 V, 3 A	5.6 V, 10 mA
C1174-AL_	150.0	135.0	0.515	0.023	0.570	0.88	2.00	0.400	5.0 : 1	3.2:1	2.25:1	1.2	5.0 V, 2 A	7.5 V, 10 mA
GA3562-BI	166.5	150.0	0.740	0.100	0.456	1.15	2.05	0.245	2.0:1	4.0:1	2.0:1	1.2	12 V, 0.83 A	6.0 V, 10 mA

1. When ordering, please specify packaging code:

C1174-ALD

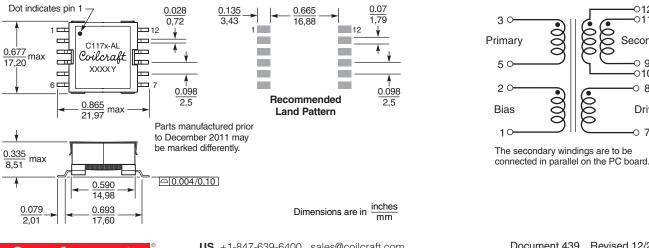
- **Packaging: D** = 13" machine ready reel. EIA-481 embossed plastic tape (200 per full reel).
 - B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 2. Inductance is for the primary, measured at 100 kHz, 0.1 Vrms.
- 3. Peak primary current drawn at minimum input voltage.

4. DCR for secondary is with windings connected in parallel.

- 5. Leakage inductance for the primary is with the secondary and drive windings shorted; leakage inductance for the drive winding is with the secondary windings shorted.
- 6. Turns ratio is with both secondary windings connected in parallel.
- 7. Output of the secondary is with the windings connected in parallel. Bias winding output is 10 V, 20 mA.

8. Electrical specifications at 25°C

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





US +1-847-639-6400 sales@coilcraft.com UK +44-1236-730595 sales@coilcraft-europe.com Taiwan +886-2-2264 3646 sales@coilcraft.com.tw China +86-21-6218 8074 sales@coilcraft.com.cn Singapore + 65-6484 8412 sales@coilcraft.com.sg

Document 439 Revised 12/21/11

012

-011

0 9

010

08

Drive

07

Secondary

© Coilcraft Inc. 2013 This product may not be used in medical or high risk applications without prior Coilcraft approval Specification subject to change without notice Please check web site for latest information.