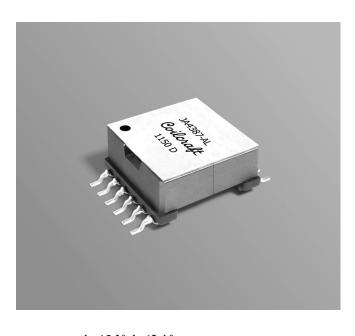


Flyback Transformers For TI TPS23754 POE Interface



- 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 reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at $<30^{\circ}C$ / 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

Part	L at 0 A ² ±10%	Lat0A ² LatIpk ³ ±10% min		CR max	(Ohms)4	Leakage L ⁵	Turns ratio ⁶			Ipk ³	
number ¹	(µH)	(µH)	pri	sec	bias	drive	max (µH)	pri:sec	pri:bias	pri:drive	(Å)	Output ⁷
JA4372-AL_	75	67.5	0.143	0.0045	0.122	0.072	3.0	1:0.08	1:0.28	1:0.16	2.2	3.3 V, 7.6 A
JA4387-AL_	75	66.0	0.077	0.0098	0.096	0.070	0.756	1:0.25	1:0.25	1:0.15	2.2	12 V, 2.08 A

1. When ordering, please specify a packaging code:

JA4387-ALD

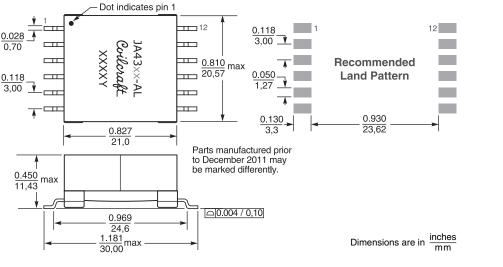
Packaging: D = 13" machine ready reel. EIA-481 embossed plastic tape (175 parts per full reel).

- 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.

- 4. DCR for the primary and the secondary is measured with windings connected in parallel.
- 5. Leakage inductance is for the primary, measured with the windings connected in parallel and the secondary windings shorted.
- 6. 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.





 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

3 0 12 0 11 Pri 00 5 0 2 0 0 Bias 0 10 2 0 0 8 Bias 0 7

Primary windings and secondary windings to be connected in parallel on PC board

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