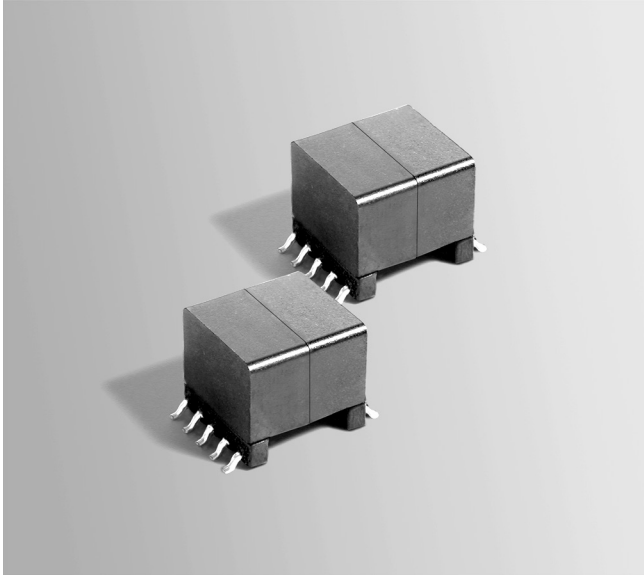




Flyback Transformers

For MPS MP8007
Flyback Reference Design



- Designed for Monolithic Power Systems MP8007 Flyback Reference Design for IEEE802.3af compliant PoE applications.
- Operates in continuous conduction mode with 36 – 57 V input.
- 1500 Vrms, 5 mA, one minute isolation (hipot) between primary and auxiliary to secondary.

Core material Ferrite

Terminations RoHS tin-silver-copper over tin over nickel over phos bronze.

Weight 6.0 – 6.2 g

Ambient temperature –40°C to +85°C

Max part temperature +125°C (ambient + temp rise)

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)

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	Power (W)	Inductance at 0 A ² ±10% (µH)	DCR max (Ohms) ³			Leakage inductance ⁴ max (µH)	Turns ratio ⁵ pri : aux : sec	Ipk ⁶ (A)	Output ⁷
			pri	aux	sec				
CX9628-AL_	12	43.7	0.095	0.094	0.009	1.00	1 : 0.25 : 0.20	2.0	5 V, 2.5 A
CX9629-AL_	12	42.9	0.10	0.10	0.02	1.00	1 : 0.25 : 0.45	2.0	12 V, 1.0 A
CX9649-AL_	12	45.3	0.10	0.10	0.09	1.00	1 : 0.25 : 0.90	2.0	24 V, 0.5 A

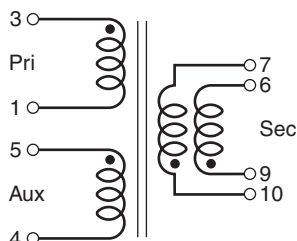
1. When ordering, please specify **packaging** code:

CX9629-ALD

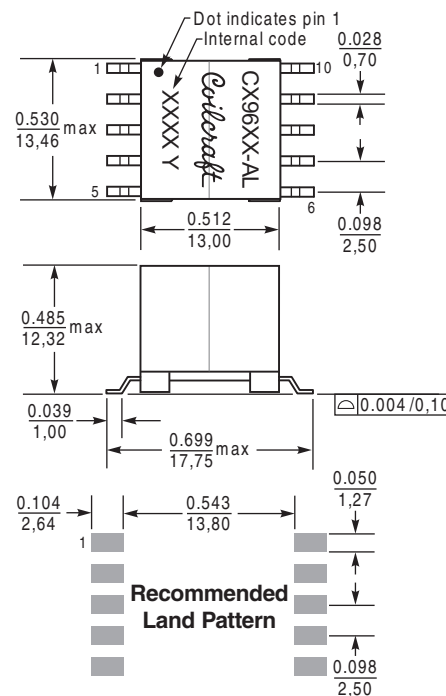
Packaging: D = 13" machine-ready reel. EIA-481 embossed plastic tape (175 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).

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.

- Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc.
 - DCR for the secondary is with both windings connected in parallel.
 - Leakage inductance measured between pins 1 and 3 with all other pins shorted.
 - Turns ratio is with the secondary windings connected in parallel.
 - Peak primary current drawn at minimum input voltage.
 - Output is with the secondary windings connected in parallel.
 - Auxiliary winding 6.8 V, 0.02 A.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Secondary windings to be connected in parallel on PC board



Dimensions are in $\frac{\text{inches}}{\text{mm}}$



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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.