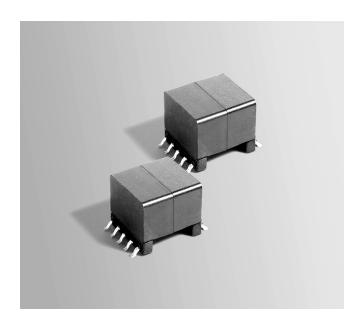


## Flyback Transformers For MPS MP8007 Flyback Reference Design



- 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

**Weight** 6.0 - 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 to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787\_PCB\_Washing.pdf.

Part	Power	Inductance at 0 A <sup>2</sup>	DCR max (Ohms) <sup>3</sup>			Leakage inductance <sup>4</sup>	Turns ratio <sup>5</sup>	Ipk <sup>6</sup>	
number <sup>1</sup>	(W)	±10% (µH)	pri	aux	sec	max (µH)	pri : aux : sec	(A)	Output <sup>7</sup>
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

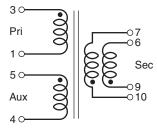
1. When ordering, please specify packaging code:

## CX9629-ALD

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

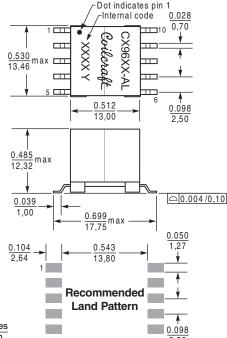
- B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.
- 2. Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc.
- 3. DCR for the secondary is with both windings connected in parallel.
- 4. Leakage inductance measured between pins 1 and 3 with all other pins shorted.
- 5. Turns ratio is with the secondary windings connected in parallel.
- 6. Peak primary current drawn at minimum input voltage.
- 7. Output is with the secondary windings connected in parallel.
- 8. 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





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