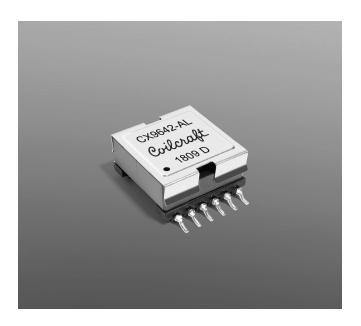


PoE Flyback Transformer for Si3406x



- Developed for Silicon Labs Si3406, Si34601 and Si34062 30W PD Flyback converter
- Designed to meet 30 W PoE IEEE 802.3at-2009 standard.
- Optimized for 220 kHz with 36 57 input voltage; Can also operate from 100 kHz to 500 kHz
- Isolation: 1500 Vrms, one minute pri and aux to sec; 500 Vrms pri to aux

Core material Ferrite

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

Weight 13.1 a

Ambient temperature -40°C to +85°C

Maximum 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: 44 mm wide, 0.4 mm thick, 32 mm pocket spacing, 11.9 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

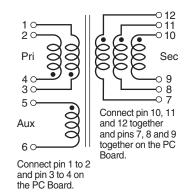
Part	Inductance at 0 A ²	Inductance at Ipk ³	DCR max (Ohms)			Leakage inductance ⁴	Turns ratio⁵		Ipk ³		
number ¹	±15% (µH)	min (μH)	pri	sec	aux	max (µH)	pri:sec	pri:aux	(A)	Output ⁶	
CX9642-AL	70.0	60.0	0.08	0.0027	0.36	1.0	1:0.136	1:0.409	3.0	5.0V, 6A	

1. When ordering, please specify packaging code:

CX9642-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).
- 2. Inductance is for the primary, measured at 333.3 kHz, 0.1 Vrms, 0 Adc.
- 3. Peak primary current drawn at minimum input voltage. DCR is with the windings connected in parallel.
- 4. Leakage inductance is for the primary winding with the secondary windings shorted.
- 5. Turns ratio is with the primary and the secondary windings connected in
- 6. Output is with the secondary windings connected in parallel. Output of the auxiliary winding is 14.5 V, 25 mA
- 7. Electrical specifications at 25°C.

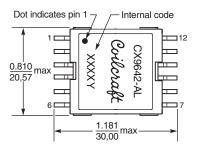
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

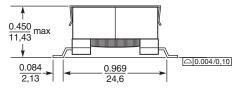


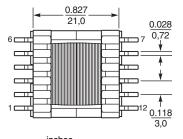


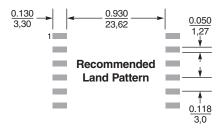


Flyback Transformer for Si3406x









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

