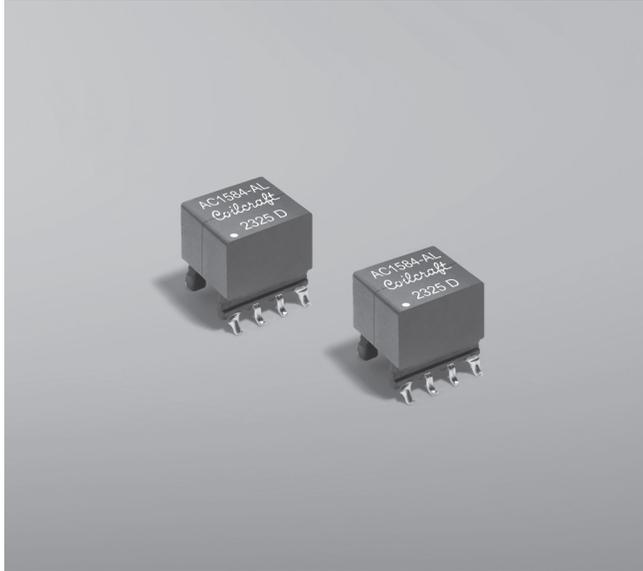




# No-Opto Flyback Transformer AC1584-AL



- Optimized for MP8017 Active clamp Flyback converter for Monolithic Power.
- Designed to meet IEEE802.3af standard for 13 W POE PD converters and operates with 37 – 57 V input
- 1500 Vrms, one minute isolation (hipot) between primary and secondary

**Core material** Ferrite

**Terminations** RoHS tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 2.1 g

**Ambient temperature** -40°C to +85°C

**Max Part Temperature** +125°C (ambient + temperature 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)

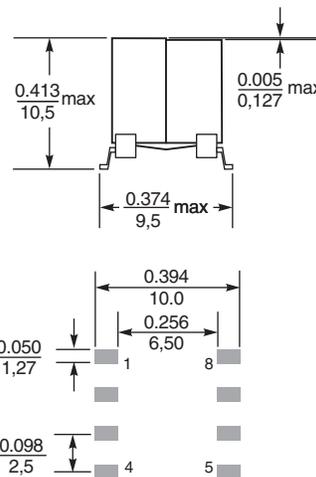
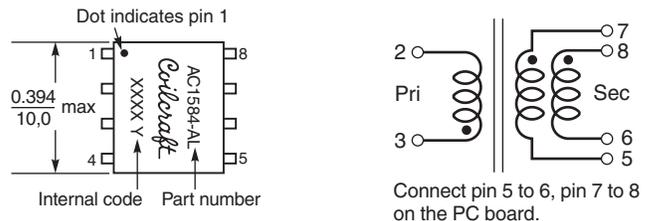
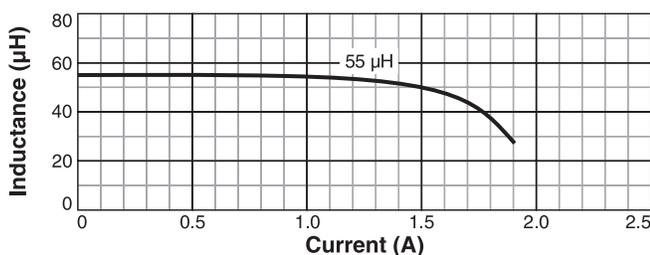
**Packaging** 300 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 20 mm pocket spacing, 10.69 mm pocket depth

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787\\_PCB\\_Washing.pdf](#).

Part number <sup>1</sup>	Inductance at 0 A <sup>2</sup> ±10% (µH)	Isat <sup>3</sup> (A)	DCR max (Ohms)			Leakage inductance max (µH) <sup>4</sup>	Turns ratio		Isolation <sup>5</sup> (Vrms)	Power (W)	Output
			pri	sec1	sec2		pri : sec1	: sec2			
AC1584-ALD	55	1.8	0.195	0.024	0.018	1.25	1 : 0.208	: 0.208	1500	13	5 V, 2.4 A

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (300 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
  - Inductance is for the primary, measured at 100 kHz, 0.1 Vrms, 0 Adc.
  - DC current that causes the primary inductance drop 30% from its value without current.
  - Leakage inductance is for the primary winding with the secondary windings shorted.
  - 1500 Vrms, one minute isolation (hipot) between primary and secondary.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

## L vs Current



**Recommended Land Pattern**

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