



# PoE Transformers

For Silicon Laboratories  
Si3400 PD Controller



- Designed for Power over Ethernet PD controllers for applications up to 10 Watts.
- Operates in continuous conduction mode with 36 – 72 V input
- 1500 Vrms isolation between primary and secondary

**Core material** Ferrite

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

**Weight** 3.8 – 3.9 g

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

**Storage temperature** Component: –40°C to +85°C.  
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** 200 per 13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 11.2 mm pocket depth

**PCB washing** Only pure water or alcohol recommended

Part number <sup>1</sup>	Power (W)	Inductance at 0 A <sup>2</sup> ±10% (µH)	Inductance at I <sub>pk</sub> <sup>3</sup> min (µH)	DCR max (Ohms) <sup>4</sup>		Leakage inductance max (µH) <sup>5</sup>	Turns ratio <sup>6</sup> pri : sec	I <sub>pk</sub> <sup>3</sup> (A)	Output
				pri	sec				
FA2671-AL_	10	40.0	36.0	0.098	0.062	0.395	10 : 3	1.3	3.3 V, 3.0 A
FA2672-AL_	10	40.0	36.0	0.098	0.085	0.340	10 : 4	1.3	5.0 V, 2.0 A
FA2732-AL_	10	40.0	36.0	0.098	0.156	0.370	1 : 1	1.3	12.0 V, 0.83 A

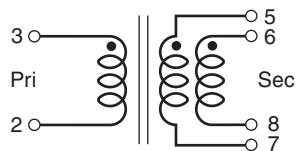
1. When ordering, please specify **packaging** code:

**FA2672-AL D**

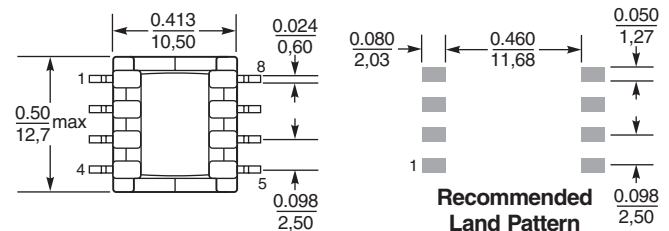
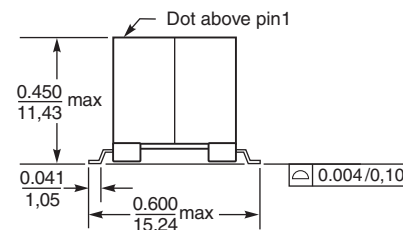
**Packaging:** **D** = 13" machine-ready reel. EIA-481 embossed plastic tape (200 parts per full reel).

**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.

- Inductance is for the primary, measured at 400 kHz, 0.4 Vrms, 0 Adc.
  - I<sub>pk</sub> is peak primary current drawn at minimum input voltage.
  - DCR for the secondary is per winding.
  - Leakage inductance measured between pins 2 and 3 with all secondary pins shorted.
  - Turns ratio is with the secondary windings connected in parallel.
  - Output is with the secondary windings connected in parallel.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Secondary windings to be connected in parallel on PCB board



**Recommended Land Pattern**

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

**Coilcraft**<sup>®</sup>

Specifications subject to change without notice.  
Please check our website for latest information.

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