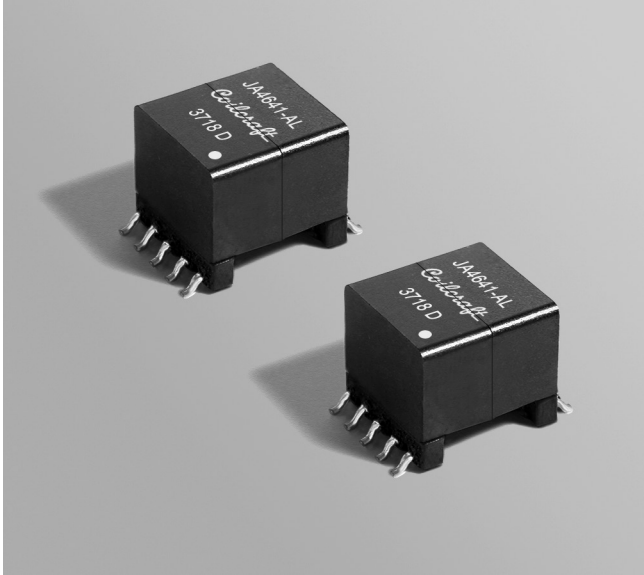


**NEW!**

# Flyback Transformer

For Silicon  
Laboratories Si3402  
PD Controller



- Specified by Silicon Laboratories for Si3402 PD controller up to 15 W
- Designed to operate in continuous mode at 250 kHz with an input of 36–72 Vdc
- 1500 Vrms, one minute isolation (hipot) between primary and secondary

**Core material** Ferrite

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

**Weight** 6.79 g

**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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**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)	Inductance at 2 A <sup>3</sup> (µH)	DCR max (Ohms)		Leakage inductance max (µH) <sup>4</sup>	Turns ratio pri : sec	Power (W)	Output
			pri	sec				
JA4641-ALD	40	36	0.10	0.275	0.56	1 : 2	15	24 V, 0.625 A

1. **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 200 kHz, 0.2 Vrms, 0 Adc.

3. Minimum inductance for the primary, measured at 200 kHz, 0.2 Vrms, 2 Adc.

4. Leakage inductance is for the primary, measured with secondary windings shorted together.

5. Electrical specifications at 25°C.

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



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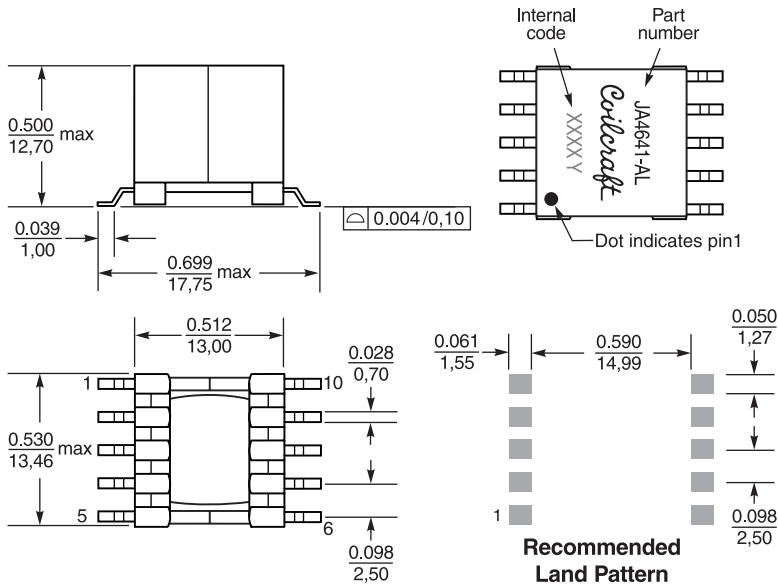
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This product may not be used in medical or high risk applications without prior Coilcraft approval. Specification subject to change without notice. Please check web site for latest information.



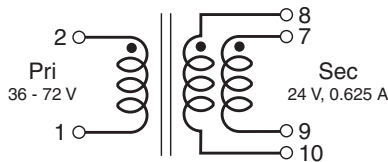
# Flyback Transformer – JA4641-AL



**Packaging** 175 per 13", reel Plastic tape: 32 mm wide, 0.5 mm thick, 28 mm pocket spacing, 13.40 mm pocket depth

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

## Schematics



Connect pin 7 to 8 and pin 9 to 10 on the PC board.



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