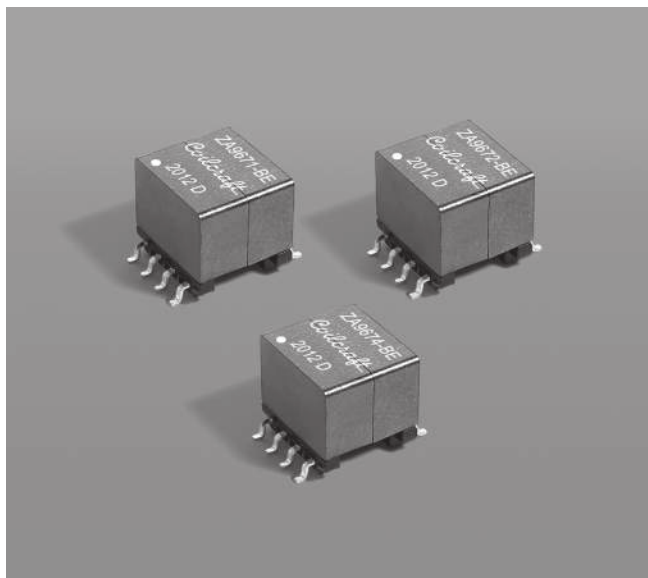


# Flyback Transformers

For Texas Instruments  
LM25184 Flyback  
Converter



- Five output versions optimized for typical design applications of TI's LM25184 flyback converter
- Designed to operate up to 300 kHz with 4 – 42 V input
- 1500 Vrms, one minute isolation between primary and secondary
- AEC-Q200 Grade 3 (–40°C to +85°C)

**Core material** Ferrite

**Environment** RoHS compliant, halogen free

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

**Weight** 2.73 – 2.80 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

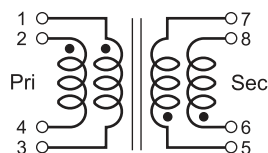
**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

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

Part number <sup>1</sup>	L at 0 A <sup>2</sup> ±10% (µH)	L min at 5 A <sup>3</sup> (µH)	Leakage inductance max (µH) <sup>4</sup>	DCR max (Ohms)		Turns ratio pri : sec	Isolation <sup>5</sup> (Vrms)	Power (W)	Output
				Pri	Sec				
ZA9670-BED	9	8.1	0.40	0.047	0.0110	4 : 1	1500	11.55	3.3 V, 3.5 A
ZA9671-BED	9	8.1	0.25	0.047	0.0145	3 : 1	1500	12.5	5 V, 2.5 A
ZA9672-BED	7	6.3	0.10	0.035	0.0480	1 : 1	1500	12	12 V, 1 A
ZA9673-BED	7	6.3	0.10	0.035	0.1380	1 : 2	1500	12	24 V, 0.5 A
ZA9674-BED	9	8.1	0.15	0.047	1.1060	1 : 3	1500	12	48 V, 0.25 A

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (350 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 300 kHz, 0.1 Vrms, 0 Adc.
  - Inductance is for the primary, measured at 300 kHz, 0.1 Vrms, 5 Adc.
  - Leakage Inductance is for the primary, measured with secondary windings shorted together.
  - 1500 Vrms, one minute isolation (hipot) from primary to secondary.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

## Schematic

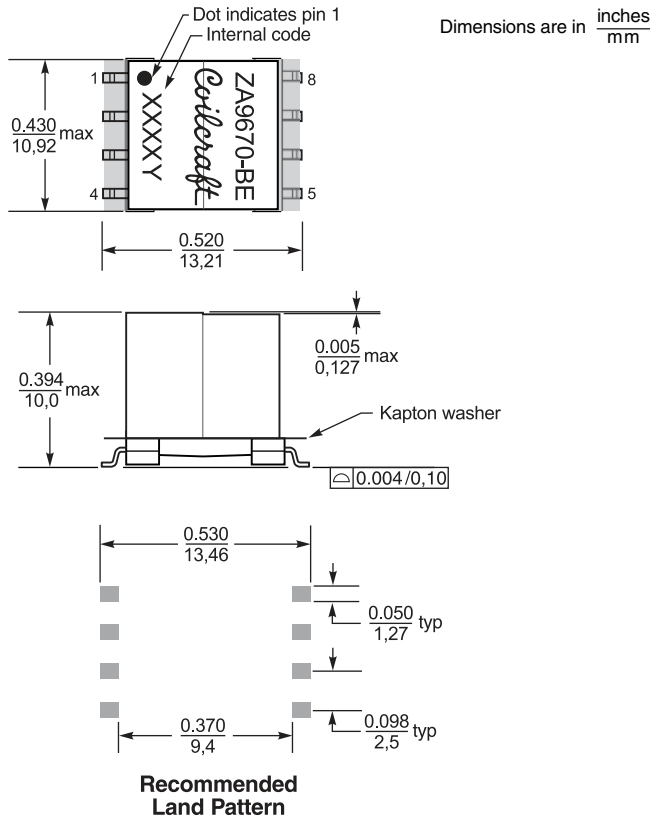


Connect pin 1 to 2, pin 3 to 4, pin 5 to 6, and pin 7 to 8 on the PC board



# Flyback Transformers – ZA967x

## Dimensions



**Packaging** 350 per 13" reel  
 Plastic tape: 24 mm wide, 0.5 mm thick,  
 16 mm pocket spacing, 10.4 mm pocket depth



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