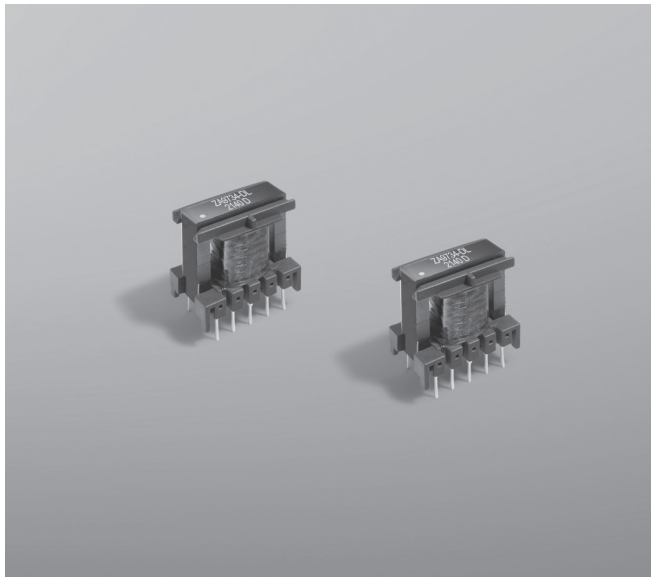


**NEW!**

# Flyback Transformer

Discontinuous Mode  
Flyback Transformer



- Designed for MAXREFDES1249 Miniature Universal Input AC/DC Converter (86 V – 305 V AC)
- Transformer optimized for 88 V – 440 V 125 KHz Input and delivers 36 W at 48 V DC, 0.75 A
- Ideal for Power over Ethernet (PoE) and telecommunication applications
- 4500 Vrms, one minute isolation (hipot) from the primary and aux to the secondary winding
- AEC-Q200 Grade 1 (–40°C to +125°C)

**Core material** Ferrite

**Terminations** RoHS tin-silver over tin over copper clad steel. Other terminations available at additional cost.

**Weight** 11 g

**Ambient temperature** –40°C to +125°C

**Max part temperature** +125°C

**Storage temperature** Component: –40°C to +125°C.

Tray packaging: –40°C to +80°C

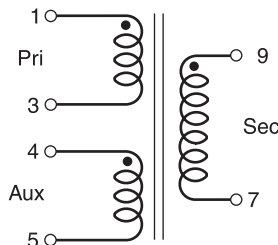
**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**Packaging** 117 parts per tray

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

| Part number | Power (W) | L at 0 A <sup>1</sup> ±10% (µH) | L at 2.5 A <sup>2</sup> min (µH) | DCR max (Ohms) |       |       | Leakage inductance <sup>3</sup> max (µH) | Turns ratio pri : sec : aux | Isolation <sup>4</sup> (A) | Output <sup>5</sup> |
|-------------|-----------|---------------------------------|----------------------------------|----------------|-------|-------|--|-----------------------------|----------------------------|---------------------|
|             |           |                                 |                                  | pri            | sec   | aux   |  |                             |                            |                     |
| ZA9734-DL   | 36        | 115                             | 103.5                            | 0.420          | 0.305 | 0.551 | 1.25                                     | 1 : 0.882 : 0.294           | 4500                       | 48 V, 0.75 A        |

1. Inductance measured at 125 kHz, 0.5 Vrms, 0 Adc.
  2. Peak primary current drawn at minimum input voltage.
  3. Leakage inductance is for the primary and is measured with the secondary shorted.
  4. 4500 Vrms isolation (hipot) from primary to secondary; 1500 Vrms isolation between primary and auxiliary.
  5. Output is for the secondary. Aux winding output is 12 V, 0.02 A.
  6. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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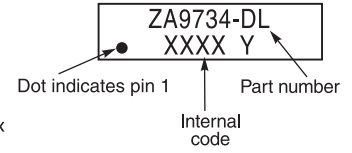
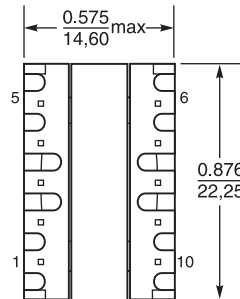
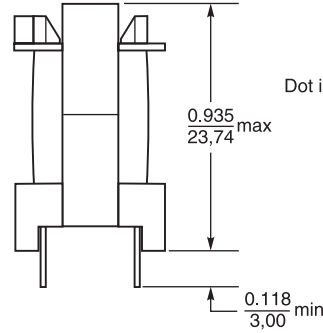
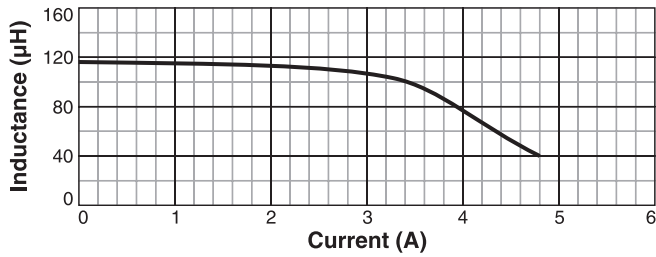
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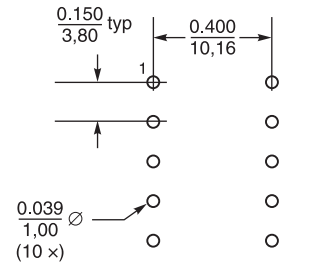


# Flyback Transformer – ZA9734-DL

## Typical L vs Current



## Recommended PC Board Layout



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



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