

Flyback Transformer zb1021-AL



- Design application for MAXIM17691A evaluation kit
- · Discontinuous conduction mode flyback transformer
- Designed to operate at 150 kHz with 17 36 V input
- 1500 Vrms, one minute isolation 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 3.85 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 200/13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 11.2 mm pocket depth

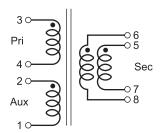
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part	L at 0 A ²	Isat ³	Leakage inductance	DCR max (Ohms)			Turns ratio	Isolation ⁵	Power	
number1	±10% (µH)	(A)	max (µH) ⁴	Pri	Sec	Aux	pri : sec : aux	(Vrms)	(W)	Output
ZB1021-ALD	22	3.4	0.25	0.068	0.018	0.288	1:0.33:0.5	1500	7.5	5 V, 1.5 A

- 1. **Packaging: D** = 13" machine-ready reel. EIA-481 embossed plastic tape (200 parts per 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 150 kHz, 0.1 Vrms, 0 Adc.
- 3. DC current that causes the primary inductance drop 30% from its value without current. Click for temperature derating information.
- 4. Leakage Inductance is for the primary, measured with secondary windings shorted together.
- 5. 1500 Vrms, one minute isolation (hipot) from primary to secondary.
- 6. Auxiliary winding 8 V, 0.005 A.
- 6. Electrical specifications at 25°C.

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

Schematic



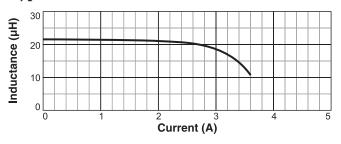
Connect pin 5 to 6 and pin 7 to 8 on the PC board



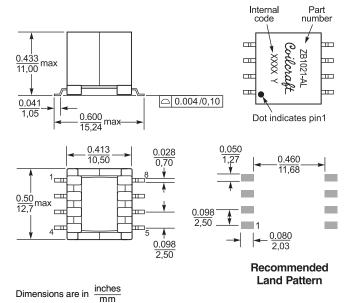


Flyback Transformer — ZB1021-AL

Typical L vs Current



Dimensions



risk applications without prior Coilcraft approval Specification subject to change without notice Please check web site for latest information