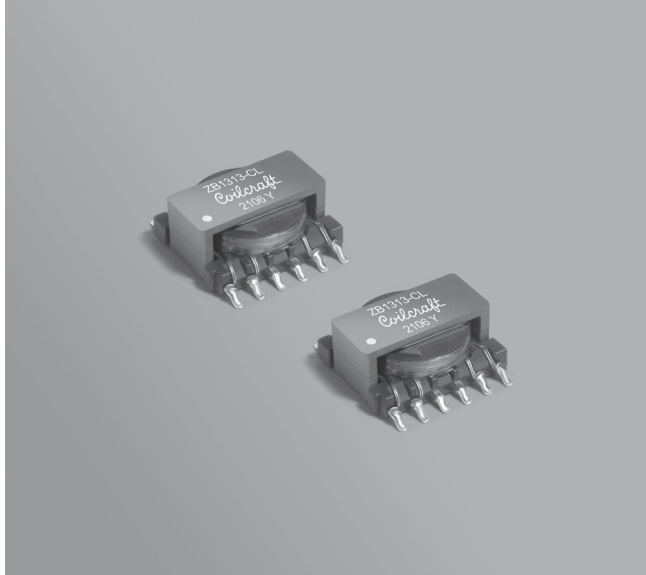


NEW!

No-Opto Flyback Transformer

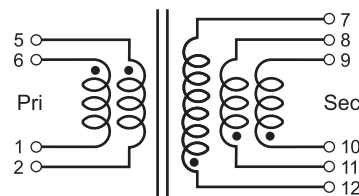


- Designed for use with Maxim 60 V No-opto isolated flyback controller MAX17690
- High efficiency, 90.6% in MAXIM reference design circuit
- Operates at 163 kHz with 18 – 38 V input
- 1500 Vrms, one minute isolation (hipot) between primary and secondary

Core material Ferrite**Terminations** RoHS tin-silver over tin over nickel over phos bronze. Other terminations available at additional cost.**Weight** 2.7 – 3.0 g**Ambient temperature** –40°C to +85°C**Max part temperature** +125°C**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** 400 per 13" reel Plastic tape: 32 mm wide, 0.4 mm thick, 20 mm pocket spacing, 7.6 mm pocket depth**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance at 0 A ² ±10% (µH)	Inductance min at ³ 5 A (µH)	DCR max (Ohms)		Leakage inductance max (µH) ⁴	Turns ratios ⁵ pri : sec	Isolation ⁶ (Vrms)	Power (W)	Output
			pri	sec					
ZB1313-CLD	10.5	9.45	0.0611	0.0647	0.18	1 : 1.27	1500	16.8	24 V, 0.7 A

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (400 parts per full reel).
 - Inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 0 Adc.
 - Minimum inductance is for the primary, measured at 150 kHz, 0.1 Vrms, 5 Adc.
 - Leakage inductance is for the primary winding with the secondary winding shorted.
 - Turns ratios are with the primary and secondary windings connected in parallel.
 - 1500 Vrms, one minute isolation (hipot) between primary and secondary.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Connect pin 1 to 2, pin 5 to 6, pin 7 to 8 to 9, and pin 10 to 11 to 12 on PC board.



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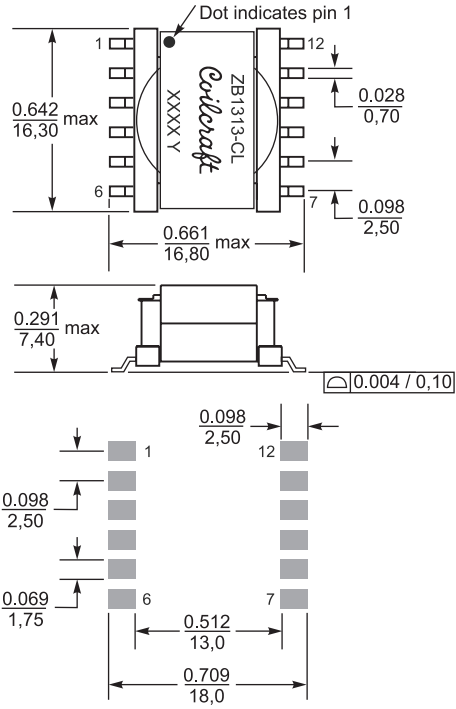
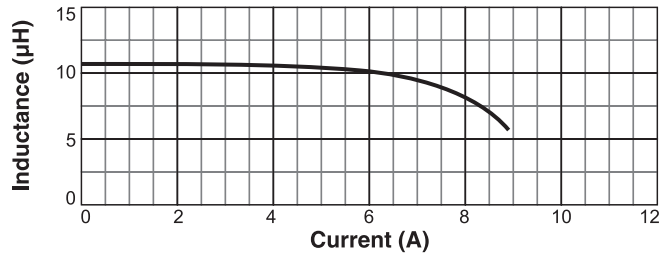
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No-Opto Flyback Transformer – ZB1313-CLD

L vs Current



Recommended Land Pattern

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