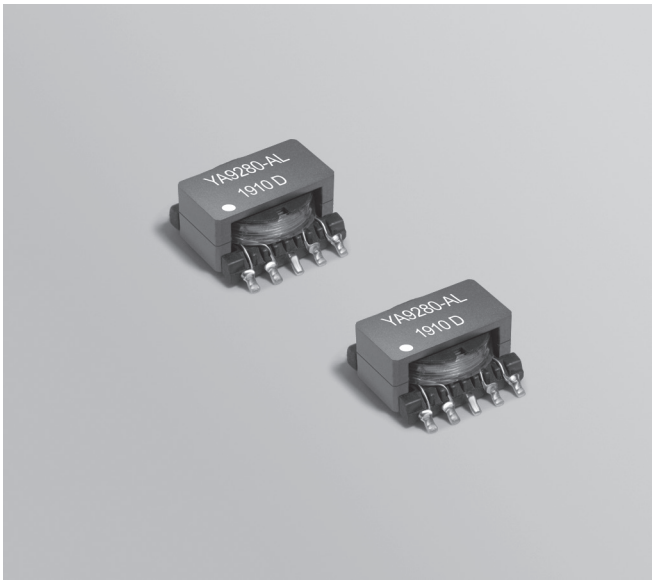
No-Opto Flyback Transformer

For Maxim Integrated MAX17690 Peak Current Mode Controller



- Optimized for Maxim's MAXREFDES1226 reference design and MAX17690 No-Opto Isolated Flyback Controllers
- Designed for discontinuous conduction mode, 17 – 36 V input
- 1500 Vrms, 1 minute isolation (hipot), between primary to secondary

Core material Ferrite

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

Weight 1.5 g

Ambient temperature –40°C to +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 500 per 13″ reel Plastic tape: 24 mm wide, 0.36 mm thick, 16 mm pocket spacing, 6.13 mm pocket depth

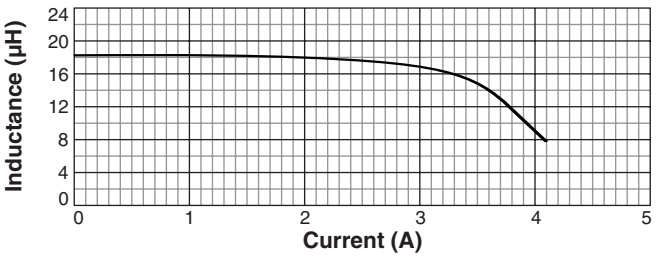
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

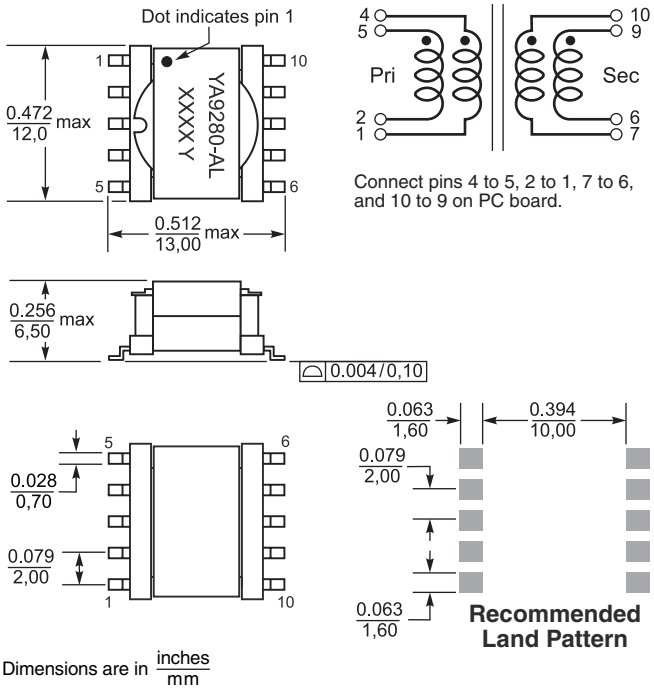
Part number[1]	Inductance at 0 Adc[2] ±10% (µH)	Inductance at 2.6 Adc[3] min (µH)	Isat[4] (A)	DCR max (Ohms) pri	DCR max (Ohms) sec	Leakage Inductance[5] max (µH)	Turns ratio pri : sec	Isolation[6] (Vrms)	Output
YA9280-ALD	18	15.3	3.75	0.101	0.027	0.572	1 : 0.4	1500	5 V, 1.5 A

1. **Packaging: D =** 13″ machine ready reel. EIA-481 embossed plastic tape (500 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 150 kHz, 0.1 Vrms, 0 Adc.
3. Minimum inductance is for the primary, measured at 150 KHz, 0.1 Vrms, 2.6 Adc.
4. DC current that causes an inductance drop of 30% (typ) from its value without current.
5. Leakage inductance is for the primary winding with the secondary windings shorted.
6. Isolation (hipot) measured between windings for one minute.
7. Electrical specifications at 25°C.

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

L vs Current





Dimensions are in inches / mm

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