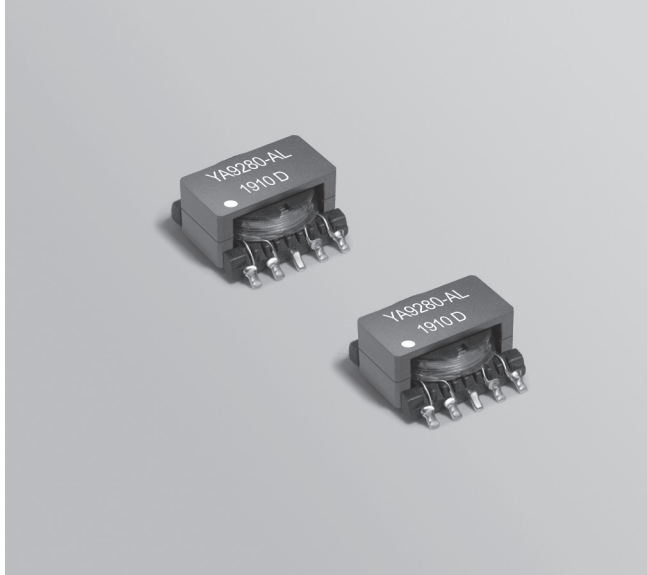


**NEW!**

# Flyback Transformer

For Maxim Integrated MAX17690  
Peak Current Mode Controller



- Isolated non-synchronous flyback transformers developed for Maxim Integrated MAX17690 reference design.
- Designed for discontinuous conduction mode, 17 – 36 V input
- 1500 Vrms isolation primary to secondary windings

**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)

**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

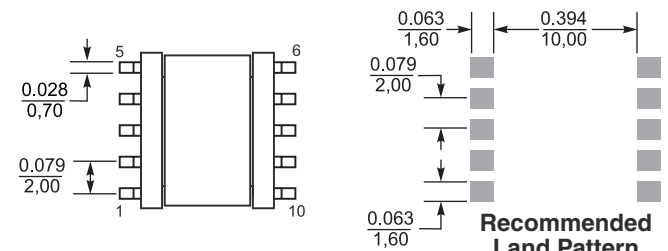
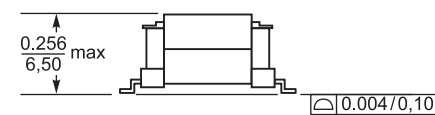
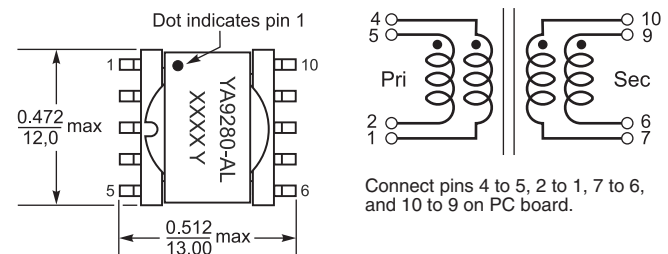
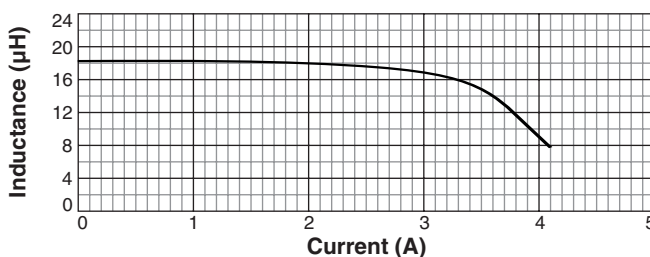
**Packaging** 500 per 13" reel Plastic tape: 24 mm wide, 0.36 mm thick, 16 mm pocket spacing, 6.13 mm pocket depth

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

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

- Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape (500 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, 2.6 Adc.
  - DC current that causes an inductance drop of 30% (typ) from its value without current.
  - Leakage inductance is for the primary winding with the secondary windings shorted.
  - Isolation (hipot) measured between windings for one minute.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

## L vs Current



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

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