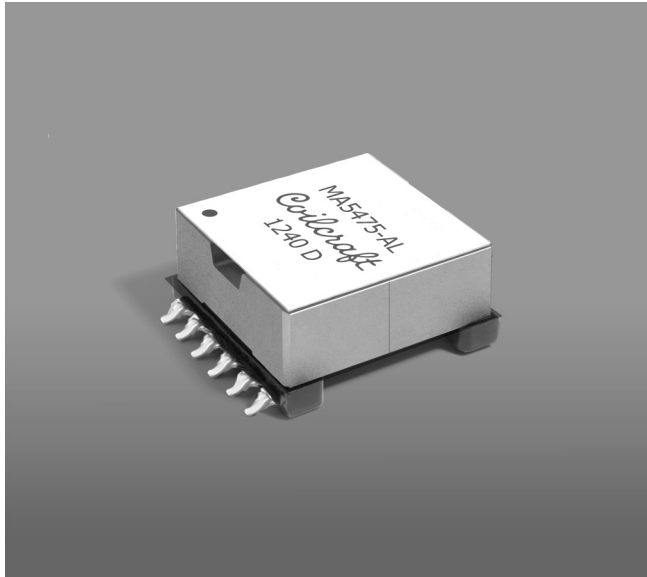


# Flyback Transformer

For Maxim MAX17595  
Flyback Controller



- Mounted on Maxim MAX17595 Evaluation Kit
- Bias winding output: 12 V, 20 mA
- Universal and telecom (36 V – 72 V) input
- 3500 Vrms, one minute primary and bias to secondary isolation

**Core material** Ferrite

**Terminations** RoHS tin-silver-copper (96.5/3.0/0.5) over tin over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 21.8 g

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

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

Tray 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)**

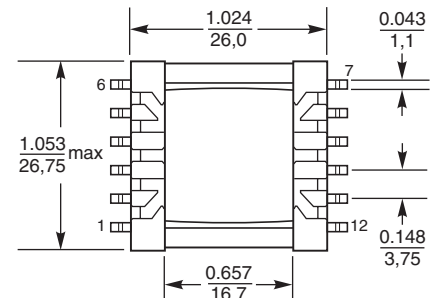
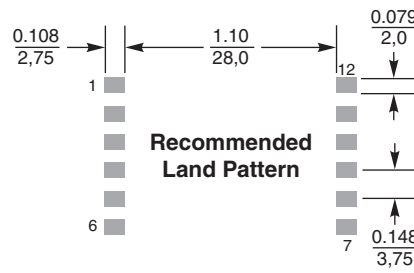
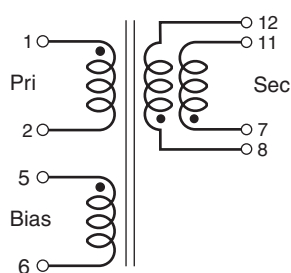
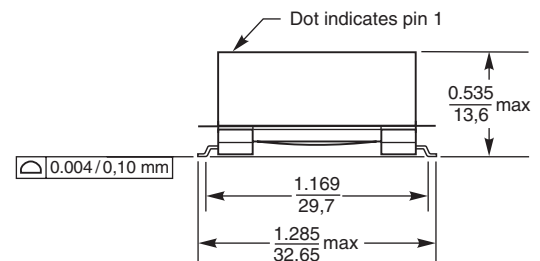
38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

**Packaging** 24 parts per tray

**PCB washing** Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf.

Part number	Inductance at 0 Adc <sup>1</sup> ±10% (µH)	Inductance at Ipk <sup>2</sup> min (µH)	DCR max (Ohms) <sup>3</sup>			Leakage Inductance <sup>4</sup> max (µH)	Turns ratio		Ipk <sup>2</sup> (A)	Output <sup>5</sup>
			pri	sec	bias		pri : sec	pri : bias		
MA5475-AL	180	162	0.210	0.016	0.185	3.1	1 : 0.24	1 : 0.20	2.0	15 V, 2 A

1. Inductance is for the primary (pins 1–2), measured at 100 kHz, 0.1 Vrms.
  2. Peak primary current drawn at minimum input voltage.
  3. DCR for the secondary is with the windings connected in parallel.
  4. Leakage inductance is for the primary winding with the secondary winding shorted.
  5. Output is for the secondary. Bias winding output is 12 V, 20 mA.
  6. Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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

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