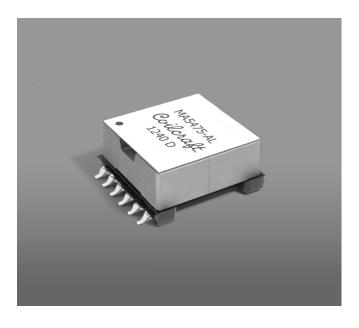


## Flyback Transformer For Maxim MAX17595 Flyback Controller



- 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  $<30^{\circ}C$  / 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

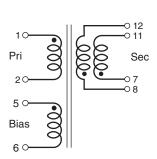
Packaging 24 parts per tray

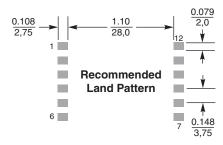
PCB washing Tested with pure water or alcohol only. For other solvents, see Doc787\_PCB\_Washing.pdf.

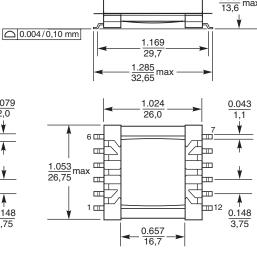
Part	Inductance at 0 Adc <sup>1</sup>	Inductance at Ipk <sup>2</sup>	DCR max (Ohms) <sup>3</sup>			Leakage Inductance <sup>4</sup>	Turns ratio		Ipk <sup>2</sup>	
number	±10% (μH)	min (μH)	pri	sec	bias	max (µH)	pri : sec	pri : bias	(A)	Output <sup>5</sup>
MA5475-AL	180	162	0.210	0.016	0.185	3.1	1:0.24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







Dot indicates pin 1

inches Dimensions are in



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