



# Isolation Transformer

For Texas Instruments SN6501  
Transformer Driver



- Developed to work with Texas Instruments SN6501 Transformer Driver for Isolated Power Supplies
- Center tapped primary and secondary windings
- Designed to meet UL/CSA/IEC 60950 Basic Insulation with 1.5 mm creepage and clearance.

**Core material** Ferrite

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

**Weight** 0.98 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

**Isolation** 2500 Vrms, one minute, winding to winding

**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** 600/13" reel Plastic tape: 24 mm wide, 0.37 mm thick, 16 mm pocket spacing, 6.1 mm pocket depth

**PCB washing** Only pure water or alcohol recommended

Part number <sup>1</sup>	Pri/sec voltage	Inductance <sup>2</sup> min (μH)	DCR max (Ohms) <sup>3</sup> pri	sec	Leakage inductance <sup>4</sup> max (μH)	Volt-time product <sup>5</sup> (V-μsec)	Power <sup>6</sup> (W)	Turns ratio pri : sec
MA5632-AL_	3.3 V to 5.0 V	17.8	0.086	0.219	0.464	17.6	2.0	1 : 2

1. When ordering, please specify **termination** and **packaging** codes:

**MA5632-ALD**

**Termination:** L = RoHS compliant tin-silver over tin over nickel over phos bronze.

**Special order:** T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

**Packaging:** D = 13" machine ready reel. EIA-481 embossed plastic tape (600 per full reel).

B = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter D instead.

2. Inductance is tested between pins 4 and 3 at 500 kHz, 0.5 Vrms, 0 Adc.

3. DCR is per winding.

4. Leakage inductance is for the primary with both windings connected in series and with the secondary windings shorted.

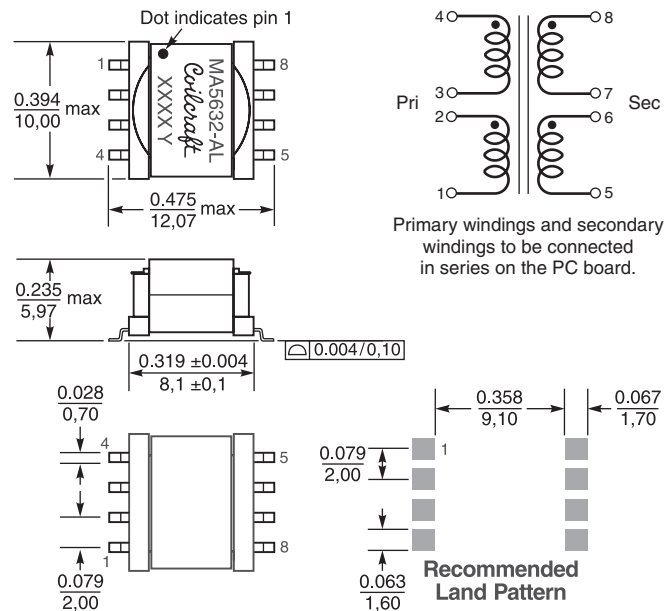
5. Based on Bs<sub>at</sub> of the core at 25°C and number of turns on winding 4-3.

6. Calculated output power based on 150 kHz operating frequency.

Power varies depending on application.

7. 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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