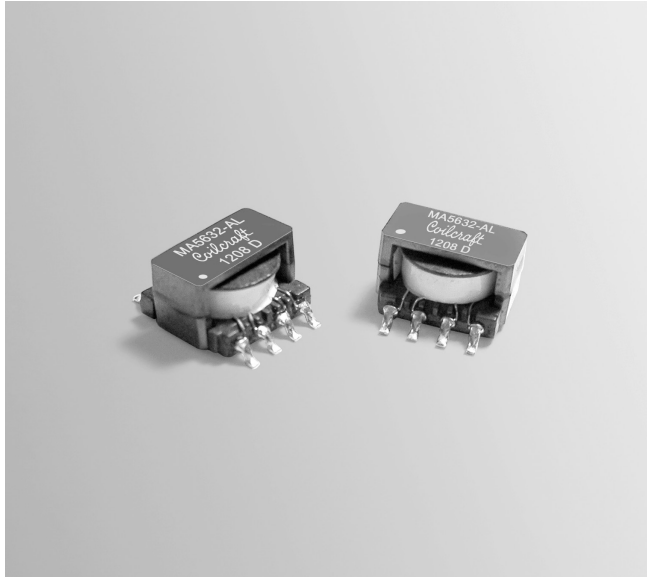


Isolation Transformer

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 Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Pri/sec voltage	Inductance ² min (µH)	DCR max (Ohms) ³		Leakage inductance ⁴ max (µH)	Volt-time product ⁵ (V-µsec)	Power ⁶ (W)	Turns ratio pri : sec
			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_{at} 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.

