Isolation Transformers

For Texas Instruments RS-485 and Profibus Interfaces

- Developed to work with Texas Instruments ISO3086T and ISO35T RS-485 Interfaces and ISO1176T Profibus Interface.
- Mounted on the Texas Instruments SN6501xEVM Evaluation Modules used to analyze the SN6501 oscillator/power driver
- Center tapped primary and secondary windings
- 2500 Vrms, one minute interwinding isolation.

Core material Ferrite

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

Weight 0.94 – 1.0 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 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[1]	Pri / sec voltage	Inductance[2] min (µH)	DCR max (Ohms)[3] pri	DCR max (Ohms)[3] sec	Leakage inductance[4] max (µH)	Volt-time product[5] (V-µsec)	Power[6] (W)	Turns ratio pri : sec
DA2303-AL_	5 V to 5 V or 3.3 V to 3.3 V	45.6	0.130	0.260	1.0	34.4	7.2	1 : 1.5
DA2304-AL_	3.3 V to 5 V	17.8	0.086	0.232	0.43	21.5	7.2	1 : 2.2

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

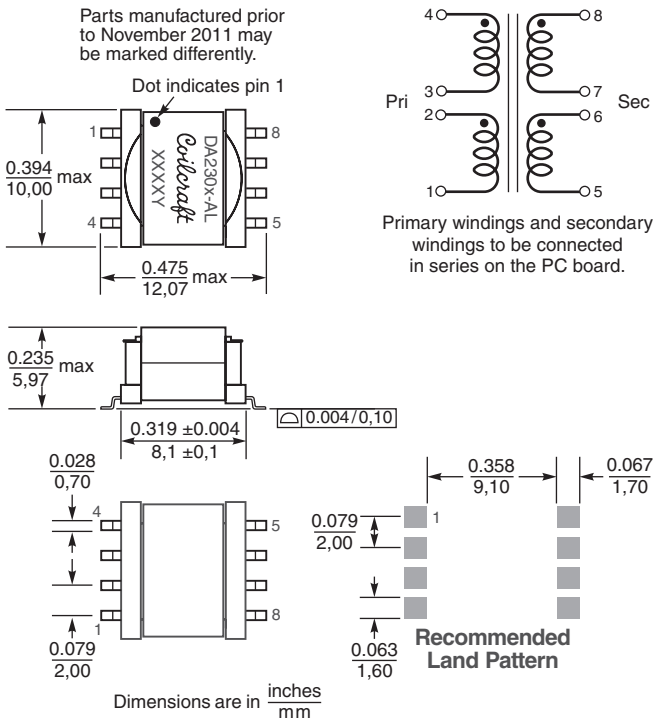
DA2303-ALD

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 Bsat 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.



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