

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
- · Center tapped primary and secondary windings
- 2500 Vrms 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. 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 ma	nx (Ohms) ³ sec	Leakage inductance ⁴ max (µH)	Volt-time product⁵ (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:

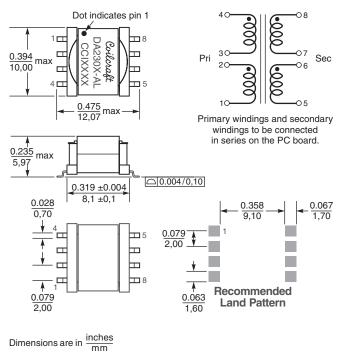
DA2303-A L D

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). D = 13" machine ready reel. EIA-481 embossed plastic

- Packaging: 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. Operating temperature range -40°C to +85°C.
- 8. Electrical specifications at 25°C.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Coilcraft

Specifications subject to change without notice. Please check our website for latest information.

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