



# SMT Power Transformers

For Analog Devices ADM2485  
Isolated RS-485 Transceiver



- Developed specifically for Analog Devices ADM2485 Isolated RS-485 Transceiver for stepping up 5 V or 3.3 V to 6 V.
- 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 <sup>1</sup>	Pri/sec voltage	Inductance <sup>2</sup> min (µH)	DCR max (Ohms) <sup>3</sup>		Leakage inductance <sup>4</sup> max (µH)	Volt-time product <sup>5</sup> (V-µsec)	Power <sup>6</sup> (W)	Turns ratio pri : sec
			pri	sec				
DA2303-AL_	5 V to 6 V	45.6	0.130	0.260	1.0	34.4	7.2	1 : 1.5
DA2304-AL_	3.3 V to 6 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:

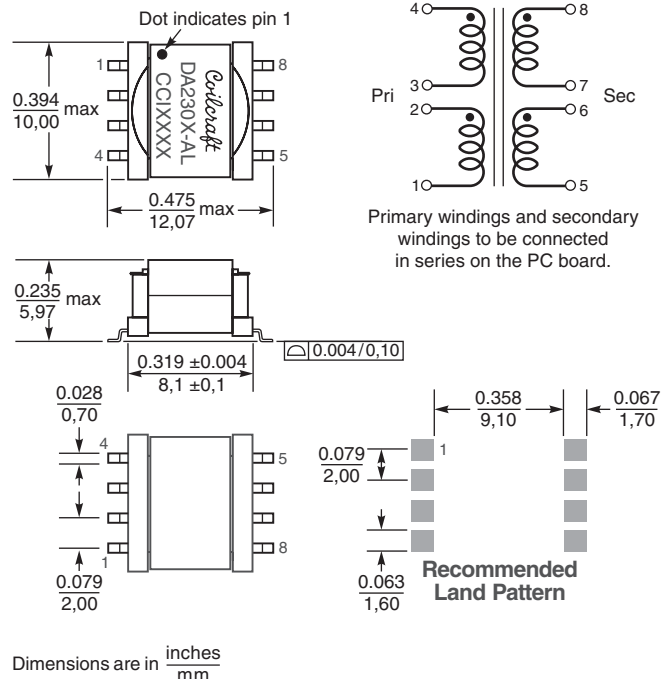
**DA2303-AL D**

**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).

**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.

- Inductance is tested between pins 4 and 3 at 500 kHz, 0.5 Vrms, 0 Adc.
  - DCR is per winding.
  - Leakage inductance is for the primary with both windings connected in series and with the secondary windings shorted.
  - Based on Bsat of the core at 25°C and number of turns on winding 4-3.
  - Calculated output power based on 150 kHz operating frequency. Power varies depending on application.
  - Operating temperature range –40°C to +85°C.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



**Coilcraft**<sup>®</sup>

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

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1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail [info@coilcraft.com](mailto:info@coilcraft.com) Web <http://www.coilcraft.com>