





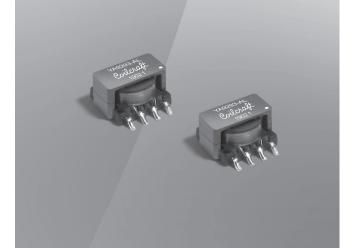






For Analog Devices ADP1031 Isolated Micropower Management Unit

- Developed to use with isolated flyback DC-DC regulator in the Analog Devices ADP1031.
- 2250 Vrms, one minute isolation from primary to secondary
- AEC-Q200 Grade 1 qualified (-40°C to +125°C ambient)



Core material Ferrite

Terminations RoHS tin-silver-copper (95.5/3.8/0.7) over tin over nickel over phos bronze.

Weight 0.99 g

Ambient temperature -40°C to +125°C

Maximum part temperature +165°C

Storage temperature Component: -40°C to +165°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) Packaging 600 per reel, 13" reel Plastic tape: 24 mm wide,

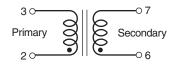
0.37 mm thick, 16 mm pocket spacing, 6.11 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

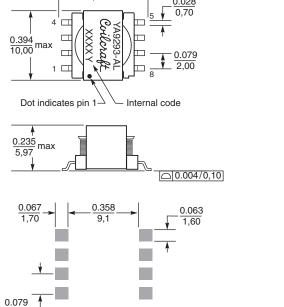
Part	Input	Inductance ²	Leakage inductance ³	(Ohms)		Turns ratio	Isolation ⁴	Isat ⁵	
number ¹	voltage (V)	±20% (µH)	max (µH)	pri	sec	pri:sec	(Vrms)	(A)	Output
YA9293-ALD	4.5 – 60	300	1.62	1.2	0.785	1:1	2250	0.25	24 V, 20 mA

- 1. **Packaging: D** = 13" machine ready reel. EIA-481 embossed plastic tape.
- 2. Inductance is for the primary, measured on an Agilent/HP 4284 at 250 kHz, 0.1 Vrms. 0 Adc.
- 3. Leakage inductance is for the primary with secondary winding shorted
- 4. Isolation (hipot) measured between windings for one minute.
- 5. DC current that causes an inductance drop of 20% (typ) from its value without current
- 6. Electrical specifications at 25°C.

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

Schematic





Recommended

Land Pattern



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2.00

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Dimensions are in

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inches

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