



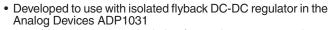
Tools &

software





# For Analog Devices ADP1031 Isolated Micropower Management Unit



- 2250 Vrms, one minute isolation from primary to secondary
- AEC-Q200 Grade 1 qualified (-40°C to +125°C ambient)

## Core material Ferrite

Environmental RoHS compliant, halogen free Terminations RoHS tin-silver-copper (95.5/3.8/0.7) over tin over nickel over phos bronze. Weight 0.76 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) Failures in Time (FIT) / Mean Time Between Failures (MTBF) 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332 Packaging 175 per 7"; 750 per reel, 13" reel Plastic tape: 24 mm wide, 0.40 mm thick, 12 mm pocket spacing, 7 mm pocket depth PCB washing Tested to MIL-STD-202 Method 215 plus an additional

0.309 max

0.276 max

₩

0.028

0,70

7.00

7.85

aqueous wash. See Doc787\_PCB\_Washing.pdf

WA8478

-BE

0.285 max

0.191

4,85

Recommended Land Pattern

7.25

Dot indicates pin 1-

0.004/0,10

0.059

1 50

0.075

Dimensions are in inches

Part number <sup>1</sup>	Input voltage	Inductance <sup>2</sup> at 0 A	Inductance <sup>3</sup> at 0.15 A	Leakage Inductance <sup>4</sup>	DCR max (Ohms)	Turns ratio	Isolation <sup>s</sup>	5
	(V)	±10% (μΗ)	min (µH)	max (µH)	pri sec	pri:sec	(Vrms)	Output
WA8478-BE_	4.5 - 60	275	220	1.2	1.2 2.46	1:1	2250	24 V, 20 mA

1. When ordering, specify a packaging code:

#### WA8478-BEC

- C = 7" machine ready reel. EIA-481 embossed plastic Packaging: tape (175 parts per reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge)
  - D = 13" machine ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (750 parts per full reel).
- 2. Inductance is for the primary, measured on an Agilent/HP 4284 at 100 kHz, 0.1 Vrms, 0 Adc.
- 3. Minimum inductance is for the primary, measured at 100 KHz, 0.1 Vrms, 0.15 Adc.
- 4. Leakage inductance is for the primary with secondary winding shorted together.
- 5. Isolation (hipot) measured between windings for one minute.

6. Electrical specifications at 25°C.

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

# **Schematic**





US +1-847-639-6400 sales@coilcraft.com UK +44-1236-730595 sales@coilcraft-europe.com Taiwan +886-2-2264 3646 sales@coilcraft.com.tw China +86-21-6218 8074 sales@coilcraft.com.cn Singapore + 65-6484 8412 sales@coilcraft.com.sg

### Document 1539 Revised 02/08/19

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