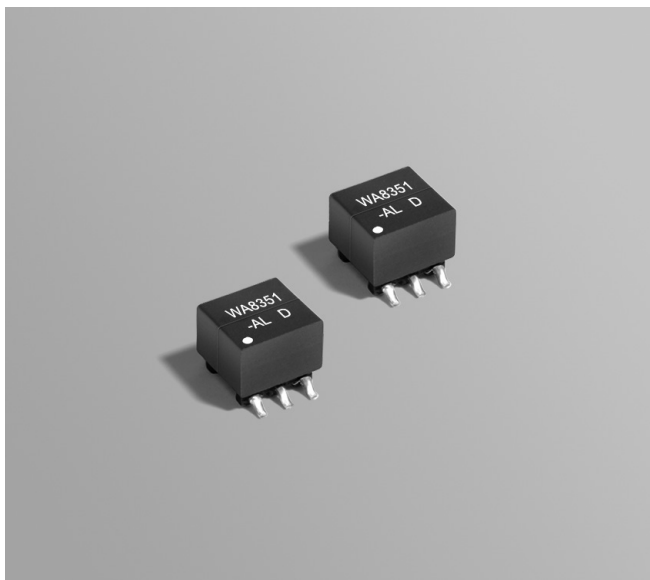




Ultrasonic Sensing Transformer WA8351-AL



- Compact, low-profile package (8.2×6.6×5.4 mm) reduces board space by up to 20% and is 24% shorter than competitive options
- Optimized for the PGA460-A1 Automotive Ultrasonic Transducer Driver from Texas Instruments
- High performance for ultrasonic time-of-flight (TOF) sensing
- Ideal for automotive ADAS and industrial applications such as liquid level sensing, flow sensing, or fluid identification
- Designed for AEC-Q200 Grade 1 (–40°C to +125°C)

Core material Ferrite

Terminations Tin-silver-copper over tin over nickel over phos bronze

Environmental RoHS compliant, halogen free

Weight 590 mg

Ambient temperature –40°C to +125°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 250/7" reel; 1000/13" reel Plastic tape: 16 mm wide, 0.5 mm thick, 12 mm pocket spacing, 5.54 mm pocket depth

PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).

Part number ¹	Inductance ² ±10% (mH)	DCR max ³ (Ohms)			Turns ratio W1 :W2 :W3	Leakage inductance ⁴ max (µH)	Isolation ⁵ (Vrms)
		W1	W2	W3			
WA8351-AL_	3.0	0.74	0.74	7.56	1 : 1 : 8.4	25.2	500

1. When ordering, please specify **packaging** code:

WA8351-ALC

Packaging: **C** = 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full 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 (1000 parts per full reel).

2. Inductance is tested between pins 4 and 6 at 100 kHz, 1.0 Vrms, 0 Adc.

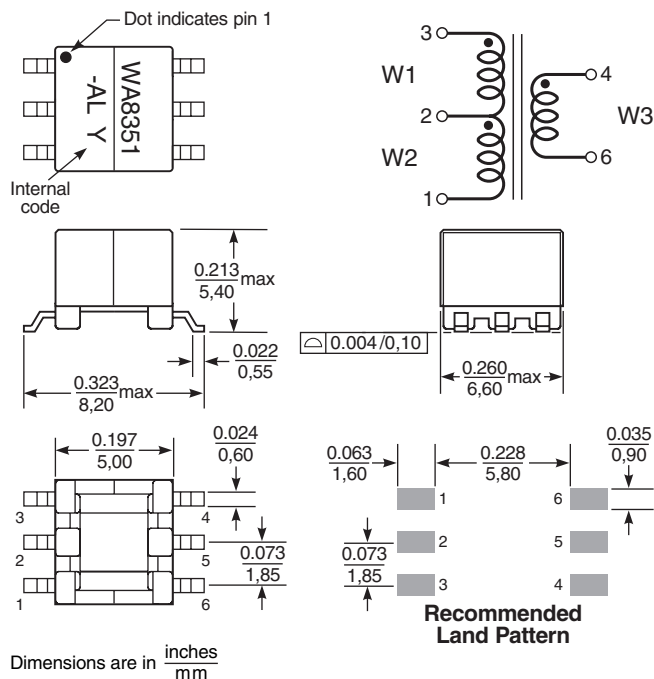
3. DCR measured at 25°C

4. Leakage inductance is measured between pins 4 and 6 with all other pins shorted.

5. 500 Vrms, one minute isolation (hipot) between primary and secondary.

6. Electrical specifications at 25°C.

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



www.coilcraft.com

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 1501-1 Revised 06/24/21

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