

Excellent Integrated System Limited

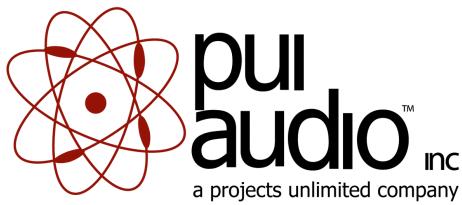
Stocking Distributor

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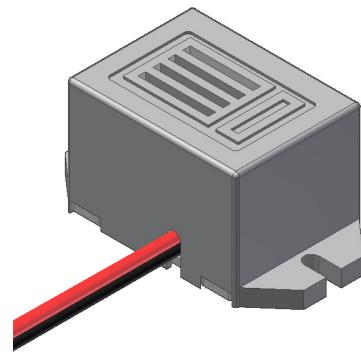
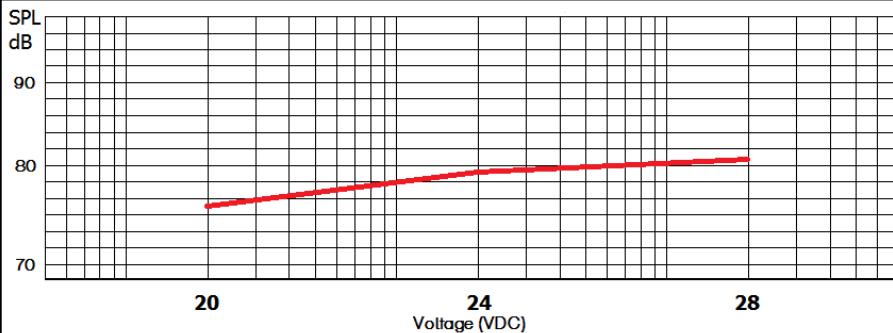
[PUI Audio, Inc.](#)
[AI-2304-TF-LW120-R](#)

For any questions, you can email us directly:

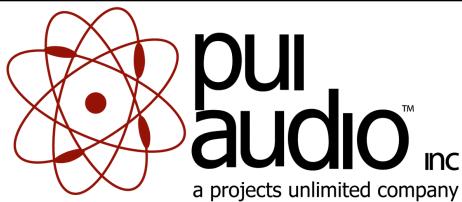
sales@integrated-circuit.com

**AI-2304-TF-LW120-R**
23 x 17mm Indicator**3541 Stop Eight Road • Dayton, Ohio 45414****Product Overview**

- 23 x 17mm housing, 20-28 VDC self-drive indicator
- 86 dBA minimum output (24 VDC @ 10 cm)
- 400 Hz continuous tone is easily heard by those with hearing loss
- Durable ABS enclosure with integrated mounting tabs
- 120mm 26 AWG UL1007 lead wires

**SPL vs Voltage (measured @ 30 cm)**

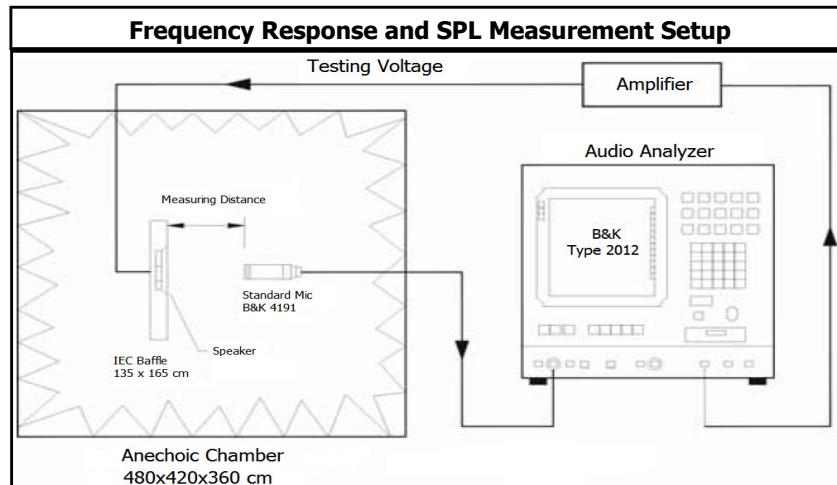
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AI-2304-TF-LW120-R 23 x 17mm Indicator

Mechanical and Environment Testing	
Test Description	Test Condition
High Temperature	70°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Low Temperature	-30°C ($\pm 2^\circ\text{C}$) with random humidity for 96 hours
Humidity	40°C ($\pm 2^\circ\text{C}$) with 90% to 95% relative humidity for 96 hours
Vibration	0.75 mm movement modulated at 10-55 Hz for 3 hours
Drop Test	100 cm free fall onto wood board, 10 cycles
Temperature Cycle Test	-20°C to 70°C, 100 cycles

After tests, part shall rest for 2 hours. Parts are then tested for clean, pure tones.



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SPECIFICATIONS

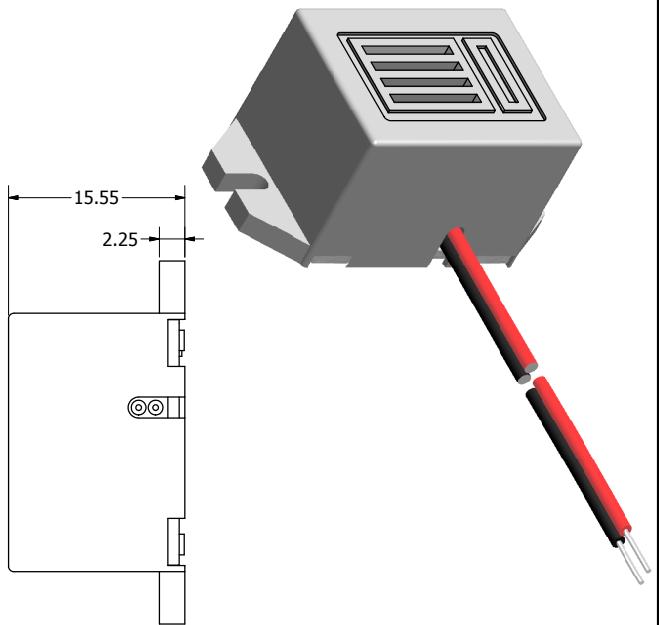
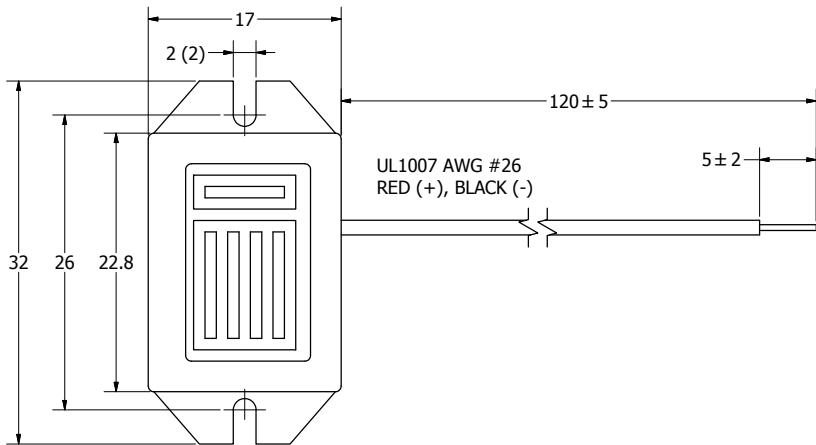
PARAMETERS	VALUES	UNITS
RATED VOLTAGE	24	Vdc
OPERATING VOLTAGE RANGE	20 ~ 28	Vdc
RATED CURRENT (MAX)	24	mA
MINIMUM SPL @ 10 CM	86	dBA
RESONANT FREQUENCY	400 ± 50	Hz
TONE OR PULSE RATE	CONTINUOUS	0 pulse /sec
OPERATING TEMPERATURE	-20 ~ +60	°C
STORAGE TEMPERATURE	-30 ~ +70	°C
HOUSING MATERIAL	ABS	-
TERMINAL MATERIAL	LEAD WIRES	-
WEIGHT	10	grams

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REVISION HISTORY

LTR	DESCRIPTION	DATE	APPROVED
-	RELEASED FROM ENGINEERING	5/16/2006	
A	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	12/6/2007	B.R.



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.
2. SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
3. THIS PART IS RoHS 2002/95/EC COMPLIANT.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS, TOLERANCES ARE ±0.5 AND ANGLES ARE ±3°.	SIZE A3	Designed by J.D.	Date 5/16/2006	Checked by E.P.	Date 5/16/2006	Approved by B.R.	Date 5/16/2006	Drawn Date 12/6/2007
AI-2304-TF-LW120-R.idw		 pui audio TM a projects unlimited company	AI-2304-TF-LW120-R	Indicator	Edition -	Sheet 1 / 1		