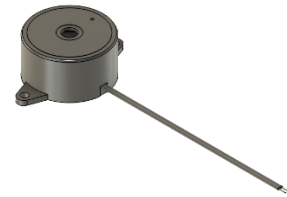




PUIaudio



Data Sheet

AI-3025-TF-LW100

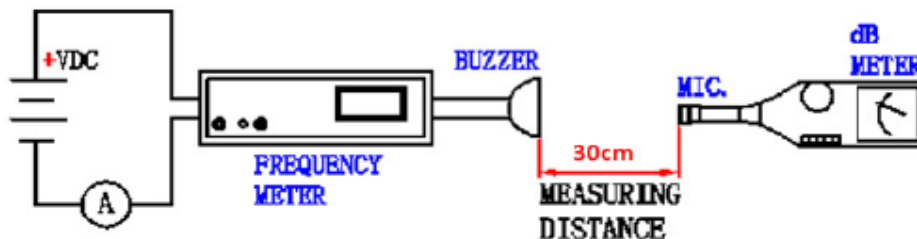
Key Features

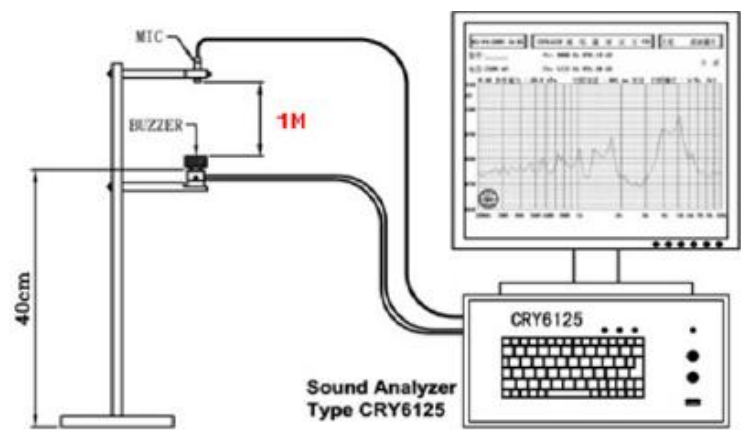
- High Output Piezo Indicator (internal drive circuit)
- 12VDC rated, 2,500Hz
- Top Firing Flange Type with Lead Wire Assembly

Specifications

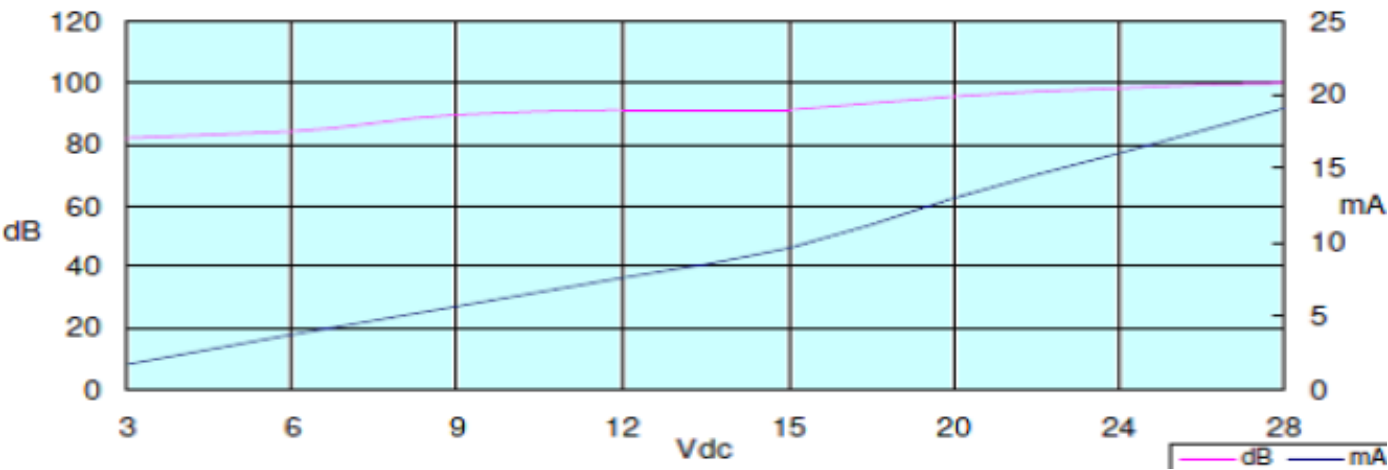
Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	3 ~ 28	VDC
Current Draw at Rated Voltage	8	mA
Minimum SPL @ 10cm	100	dBA
Resonant Frequency	2,500 ± 500	Hz
Tone or Pulse	Continuous	-
Housing Material	ABS 757 UL94HB (Black)	-
Terminal Material	Lead Wires	-
Weight	7	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	-
Environmental Compliances	ROHS/REACH	-
Storage Temperature	-30 ~ +80	°C
Operating Temperature	-20 ~ +70	°C

Measurement Method (Temperature: 25±3°C; Voltage: 12VDC, Distance: 30cm)





Typical Frequency Response

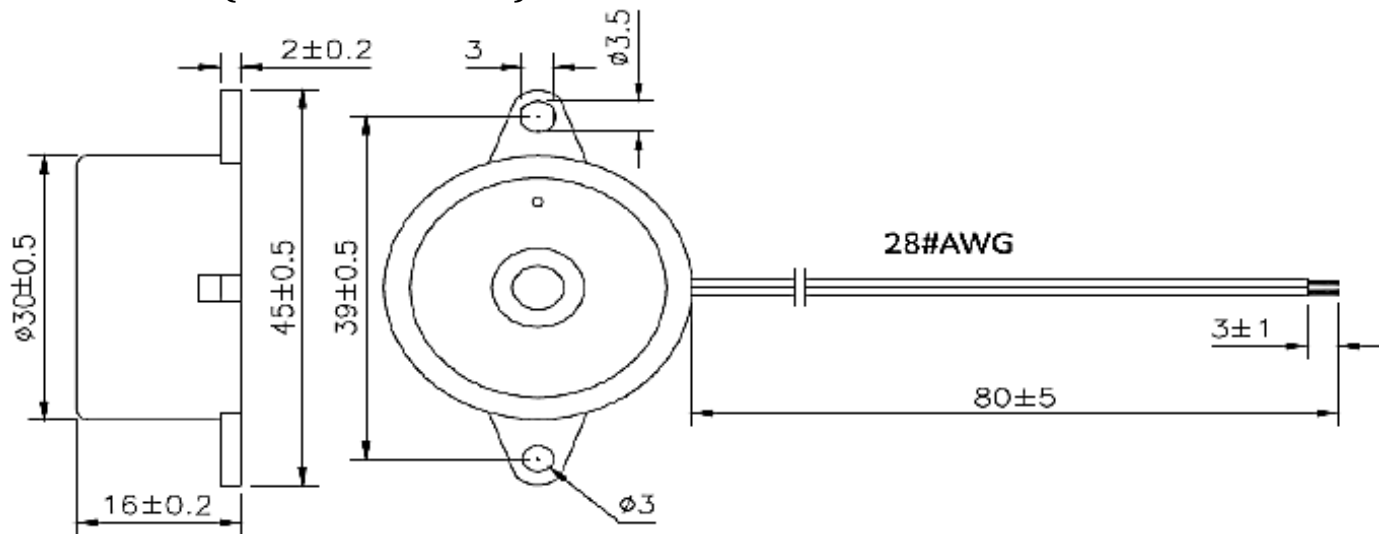


Reliability Testing

Type of Test	Test Specifications
High Temperature Test	98 hours at +80°C, then rest at room temperature for 2 hours without applying power
Low Temperature Test	98 hours at -30°C, then rest at room temperature for 2 hours without applying power
Humidity Test	98 hours at +40°C with relative humidity at 95% then rest at room temperature for 2 hours without applying power
Durability Testing	Test after 1000 hours actual continuous operation (at standard measurement conditions)
Vibration Test	Vibration of 2,000 cycles per minute, 2mm amplitude, applied in X, Y, and Z directions for 30 minutes each.
Drop Test	Drop from 75cm onto the ground.

All parts shall meet specifications after testing. SPL shall be within ± 5dB.

Dimensions (±0.5mm Tolerance)



Packaging

140pcs per box
10 boxes per carton
1400pcs per carton

Specifications Revisions			
Revision	Description	Date	Approved
A	Released from Engineering	5/19/2026	JL

- Note:
- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^\circ$.
 - 2. Specifications subject to change or withdrawal without notice.