

Data Sheet AI-3232-TWF-LW160

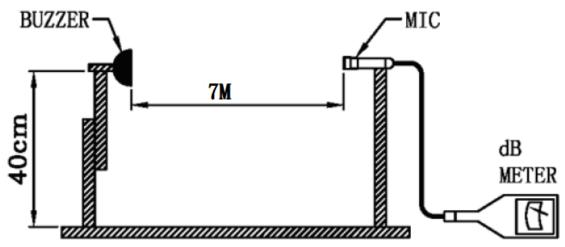
Features:

- 12Vdc rated voltage
- 116 dB SPL at 10 cm for use in loud environments
- Wide operating temperature range from -40°C to 85°C
- 160mm lead wires for ease of use

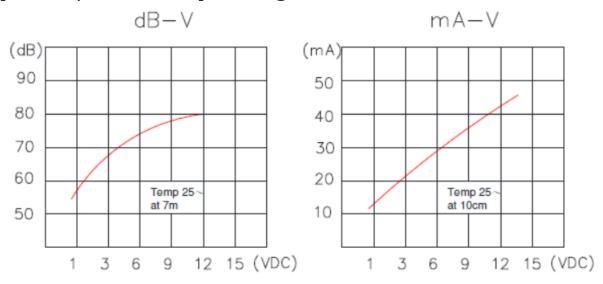
Specifications

Parameters	Values	Units	
Rated Voltage	12	VDC	
Operating Voltage Range	5 ~ 15	VDC	
Current Draw at Rated Voltage	80 max.	mA	
Minimum SPL @ 10cm	116	dBA	
Minimum SPL @ 7m	80	dBA	
Resonant Frequency	$3,200 \pm 300$	Hz	
Tone or Pulse Rate	Continuous	-	
Housing Material	Black PBT	-	
Terminal Material	Lead Wire	-	
Weight	21	Grams	
Ingress Protection Rating	IP65	-	
Environmental Compliances	RoHS/REACH	Ex. 7c-1	
Storage Temperature	-40 ~ 85	°C	
Operating Temperature	-40 ~ 85	°C	

Measurement Method (Power=12Vdc, Distance=7m)



Typical SPL/Current vs Input Voltage

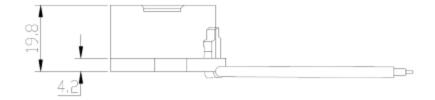


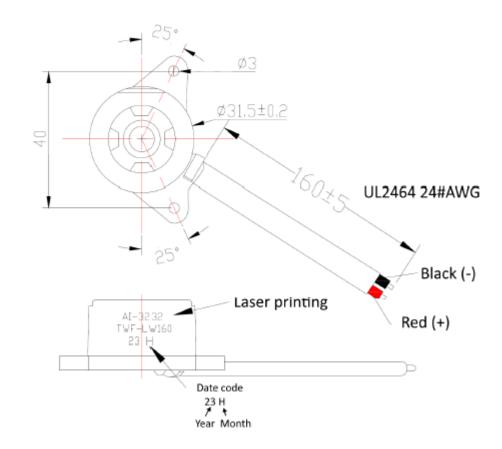
Reliability Testing

Renability Testing			
Type of Test	Test Specifications		
High Temperature Test	96 hours at 85°C		
Low Temperature Test	96 hours at -40°C		
Humidity Test	96 hours at 40°C with relative humidity at 90~95%		
	Run for 5 cycles with each cycle consisting of:		
	+85°C		
Temperature Cycle Testing	+25°C +25°C		
	0.5hr 0.5 0.25 0.5 0.5 0.25 3hours		
	Frequency: 10 to 55 Hz; Amplitude: 1.5mm; X, Y, Z directions 2 hours each		
Vibration Test			
	Drop on a hard wood board 4 cm thick, any direction, 6		
Drop Test	times from a height of 75 cm.		

After each test, let rest for 6 hours, then the change in SPL shall be within ±10 dB

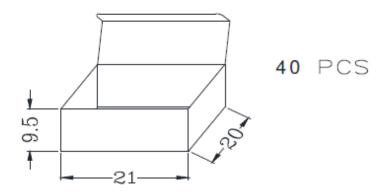
Dimensions

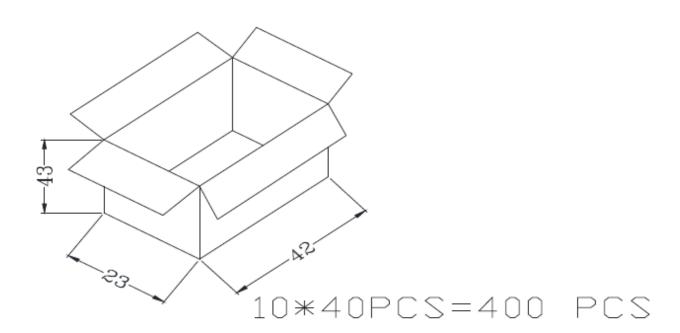




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Packaging





Specifications Revisions

Revision	Description	Date	Approved
Α	Released from Engineering	09/14/2023	-
В	Revised Operating Voltage Range	10/26/2023	-

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.