

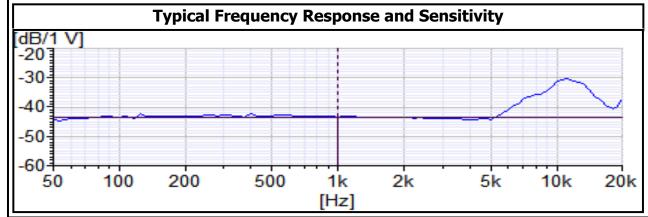
POW-1644P-B-R Omni-Directional Waterproof Microphone

3541 Stop Eight Road • Dayton, Ohio 45414



Product Overview

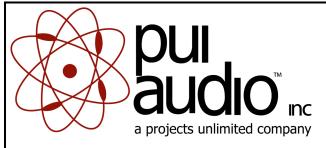
- 7.1mm overall diameter and 2.6mm height with pin terminals
- -44 dB sensitivity for use in most environments
- Wide 2 to 10 VDC operating voltage and 50-16,000 Hz frequency response
- >60 dB signal-to-noise ratio and 2.2 kOhm impedance
- Omni-directional polar pattern for great off-axis response
- IP57 rated and built with a rubber boot for a superior seal





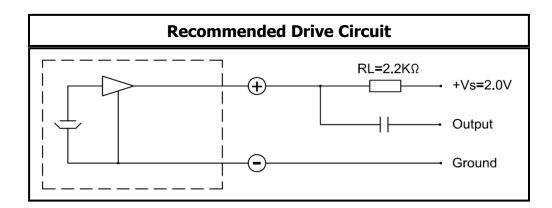


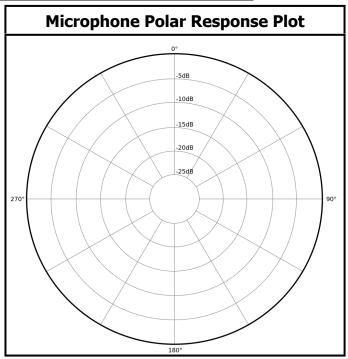




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Mechanical and Environment Testing				
Test Description	Test Condition			
High Temperature	70°C with random humidity for 200 hours			
Low Temperature	-40°C with random humidity for 200 hours			
Humidity	40°C with 90% relative humidity for 200 hours			
Vibration	3 mm movement for 3 minutes in each of 3 axis			
Drop Test	70 cm free fall onto 20 mm thick board, two directions			
Temperature Cycle Test	-40°C to 70°C, 5 cycles			



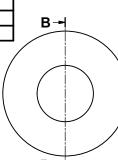


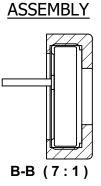
SPECIFICATIONS				
PARAMETERS	VALUES	UNITS		
DIRECTIVITY	OMNI	-		
SENSITIVTY	-44 ± 3	dB		
STANDARD OPERATING VOLTAGE	2	Vdc		
MAX OPERATING VOLTAGE	10	Vdc		
CURRENT CONSUMPTION (MAX)	0.5	mA		
IMPEDANCE	2.2	KOhm		
SIGNAL TO NOISE RATIO (MIN.)	60	dB		
OPERATING TEMPERATURE	-20 ~ +70	C°		
STORAGE TEMPERATURE	-40 ~ +85	C°		
TERMINAL	PIN	-		
INTERNAL CAPACITOR	N/A	pF		

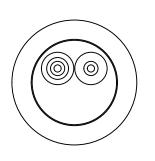
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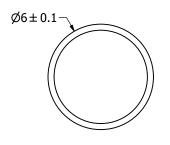
REVISION HISTORY						
LTR	DESCRIPTION	DATE	APPROVED			
-	RELEASED FROM ENGINEERING	10/19/2006				
Α	DELETED MOLEX CONNECTOR NOTE	7/17/2007	D.F.			
В	REVISED IP RATING	7/2/2008	B.R.			
С	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	8/30/2008	B.R.			
D	ADDED TEMPERATURES AND PIN DIAMETER	1/29/2013	B.R.			

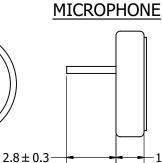


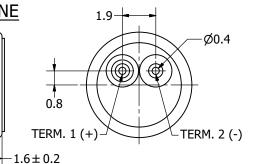


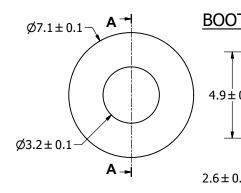


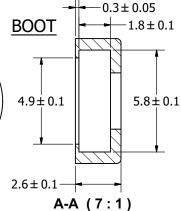












NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS.
- SPECIFICATIONS SUBJECT TO CHANGE OR WITHDRAWL WITHOUT NOTICE.
- 3. THIS PART IS RoHS 2011/65/EU COMPLIANT.
- 4. PART IS IP57 RATED.
- 5. ASSEMBLY IS WASHABLE WITH BOOT IN PLACE.

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MILLIMETERS,

TOLERANCES ARE 20.5 AND ANGLES ARE 23°.

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Date

 Checked by
 Date
 Approved by
 Date
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 B.R.
 10/20/2006
 R.W.
 10/20/2006
 8/30/2008

 POW-1644P-B-R

Microphone | Edition | Sheet | 1/1

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