

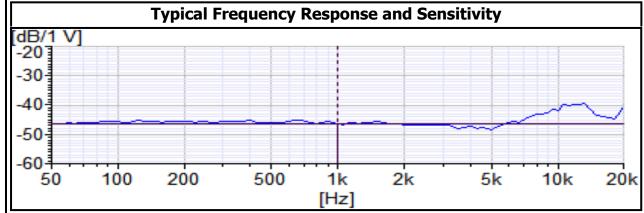
TOM-1545P-R Omni-Directional Microphone



3541 Stop Eight Road • Dayton, Ohio 45414

Product Overview

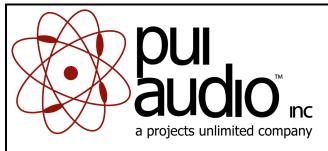
- Tiny 4mm overall diameter and 1.5mm height for space-limited applications
- -45 dB sensitivity for use in most environments
- Wide 2 to 10 VDC operating voltage and 100-10,000 Hz frequency response
- >60 dB signal-to-noise ratio and 2.2 kOhm impedance
- Omni-directional polar pattern for great off-axis response





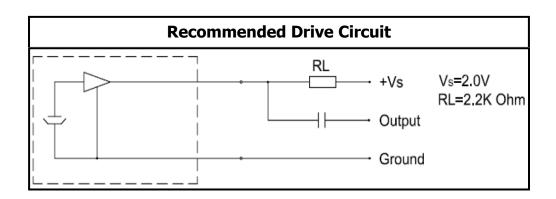


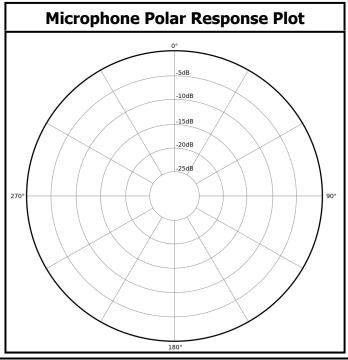




TOM-1545P-R Omni-Directional Microphone

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	-10°C to 50°C, 5 cycles				



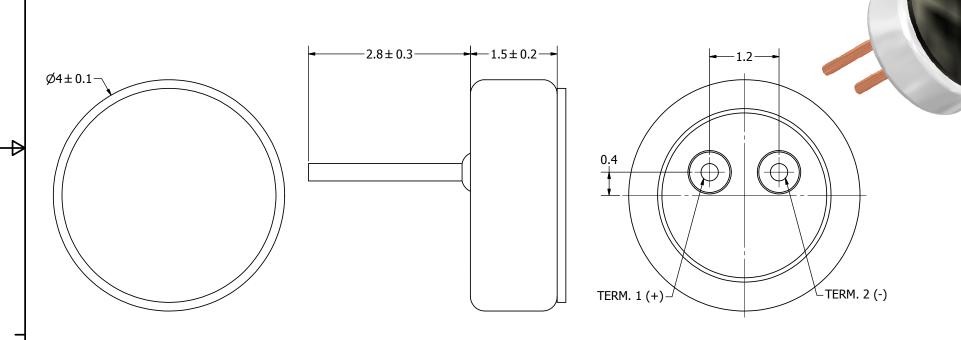


SPECIFICATIONS					
PARAMETERS	VALUES	UNITS			
DIRECTIVITY	OMNI	-			
SENSITIVTY	-45 ± 3	dB			
STANDARD OPERATING VOLTAGE	2	Vdc			
MAX OPERATING VOLTAGE	10	Vdc			
CURRENT CONSUMPTION (MAX)	0.5	mA			
IMPEDANCE	2.2	KOhm			
SIGNAL TO NOISE RATIO (MIN.)	60	dB			
TERMINAL	PIN	-			
INTERNAL CAPACITOR	N/A	pF			

THIS DOCUMENT CONTAINS DATA PROPRIETARY TO PROJECTS UNLIMITED, INC. ANY USE OR REPRODUCTION, IN ANY FORM, WITHOUT PRIOR WRITTEN PERMISSION OF PROJECTS UNLIMITED, INC. IS PROHIBITED.

©2003, Projects Unlimited Inc.

REVISION HISTORY						
LTR	DESCRIPTION	DATE	APPROVED			
-	RELEASED FROM ENGINEERING	1/24/2006				
Α	ADDED TERMINAL POLARITY	2/5/2007	D.F.			
В	REVISED TO INVENTOR 3-D DRAWING TEMPLATE	8/30/2007	B.R.			



TOM-1545P-R.idw

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		Designed by	Date	Checked by		Date	Approved by	Date	
SPECIFIED: DIMENSIONS ARE IN	SIZE	J.A.F.	1/24/2007	Е	.Р.	1/25/2007	B.R.	1/25/2	007
MILLIMETERS, TOLERANCES ARE ±0.5 AND	A3	pul.			TOM-1545P-R				
ANGLES ARE ±3°.			audic) [™] Inc		Micro	ohone		Edi

Drawn Date

8/30/2007

Sheet

1/1