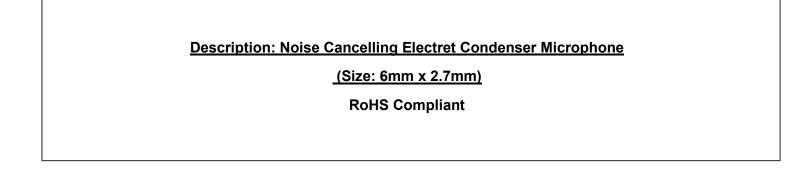
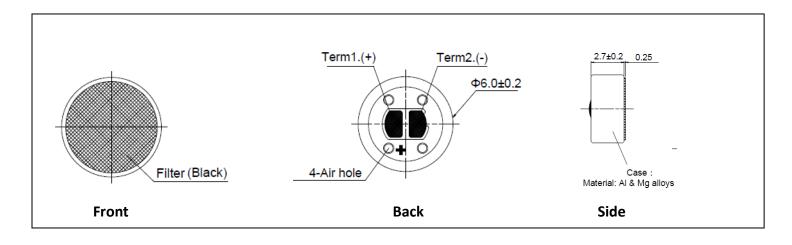


Specification Part Number: TM141060





Revision	Date	Comments
A	March 1, 2023	Initial Release

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1. ELECTRICAL SPECIFICATIONS

Standard Conditions		Basic Test Conditions	
Temperature	5 to 35°C	Temperature	20 ± 2°C
Humidity	45 to 85%	Humidity	63 to 67%
Air Pressure	86 to 106kPa	Air Pressure	86 to 106kPa

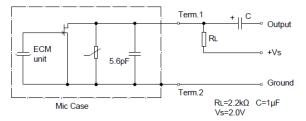
	Parameter	SPEC	Unit
	Directional Characteristic	Noise Cancelling	dB
	Sensitivity	-45±3	dB
	Impedance	2.2 (Max)	kΩ
S/	N Ratio (A weighted network)	57 (Тур)	dB
Maxir	num Input Sound Pressure Level	110 THD≤3%	dB
Standard Operating Voltage		2.0	Vdc
	Operating Voltage Range	1.0~10.0	Vdc
Decrease Voltage Characteristics (Vs=2.0 to 1.5V dc)		-3(Max)	dB
	Current Consumption	500 (Max)	μΑ
	Standard Test Circuit	See Fig. 1	
Frequency Response Characteristic		See Fig. 2	_
Memo	Standard test condition	RL= 2.2kΩ, Vs=2V dc (@f=1kHz, Pin=1Pa, 0dB=1V/pa, L=50cm)	

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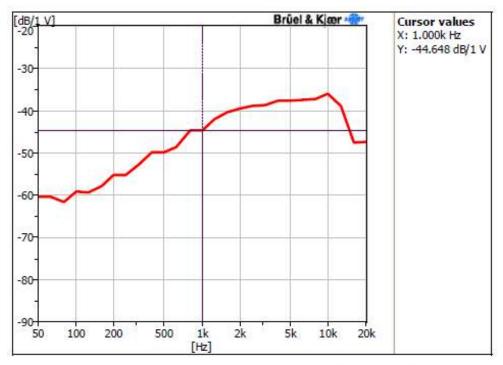
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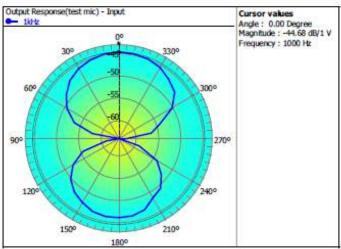


2. STANDARD TEST CIRCUIT



3. TYPICAL FREQUENCY RESPONSE IN ANECHOIC CHAMBER





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4. RELIABILITY

	ltem	Test conditions	Evaluation standard	
1	Hi-Temp.Test	The microphone unit must be subjected to +85℃ for 100 hours and exposed to room temperature for 3 hours.		
2	Low-Temp.Test	The microphone unit must be subjected to -40℃ for 100 hours and exposed to room temperature for 3 hours.		
3	Humidity &Heat Test	The microphone unit must be subjected to +55℃, 85% RH-for 100 hours and exposed to room temp for 3 hours.		
4	Thermal Shock Test	The microphone unit must be subjected to following condition [+80 $^{\circ}$ C 0.5H \rightarrow room temp 1H \rightarrow -40 $^{\circ}$ C 0.5H \rightarrow room temp 1H]at 10 cycles.		
5	Vibration Test	The microphone unit must be subjected to a procedure that it is vibrating for two hours from each of the three directions(x y z) with a frequency of 10-55Hz and a 1.52mm- high amplitude.	After any of the tests, the sensitivity of the microphone unit shall not change more than \pm 3dB from initial value and shall keep its initial operation and appearance.	
6	Drop Test	The microphone unit must be subjected to a procedure that it is dropped on a slippery marble floor for 5 times from each axis for a total of 5 times from a 1.0-meter-height without packaging.		
7	Storage Temperature	-35℃~+60℃ R.H .less than 90%		
8	Operating Temperature	-35℃~+60℃ R.H. less than 90%		
9	ESD Protection	The test microphone must be discharged between each ESD exposure without ground(contact:±6KV,air:±8KV)		

NOTES:

All the soldering procedures upon microphones must be completed in a heat sink device. The temperature of the soldering iron must be limited to 360°C±20°C and the soldering time should not exceed 3 seconds.

Operators, the soldering fixture and the soldering iron must be statically grounded under each soldering process.

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