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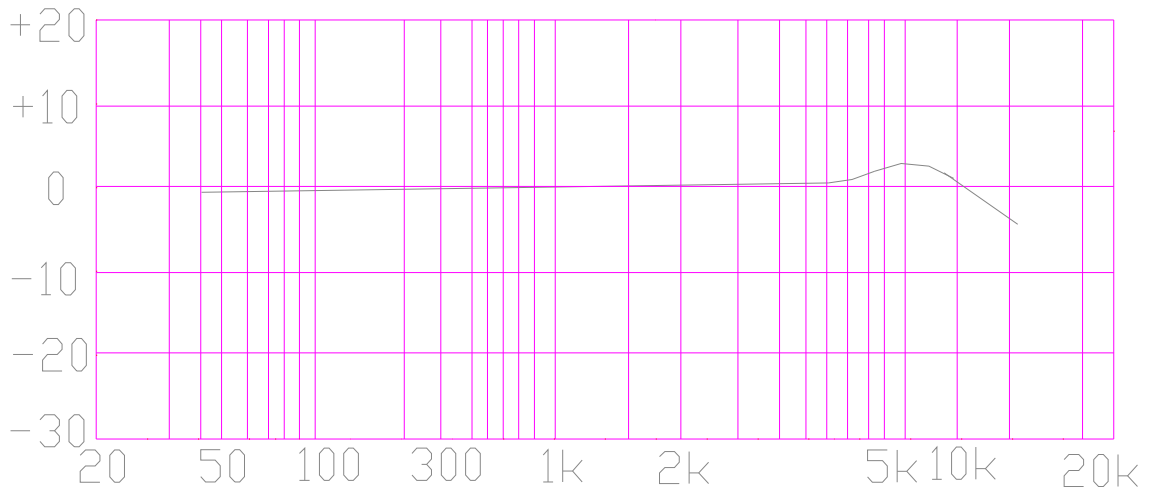
**EN:** This Datasheet is presented by the manufacturer.

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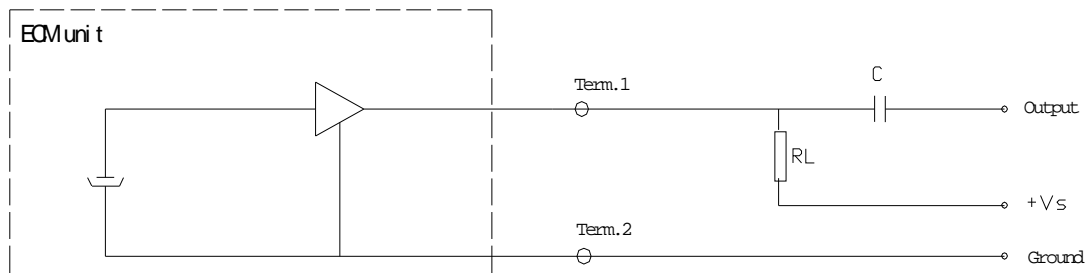
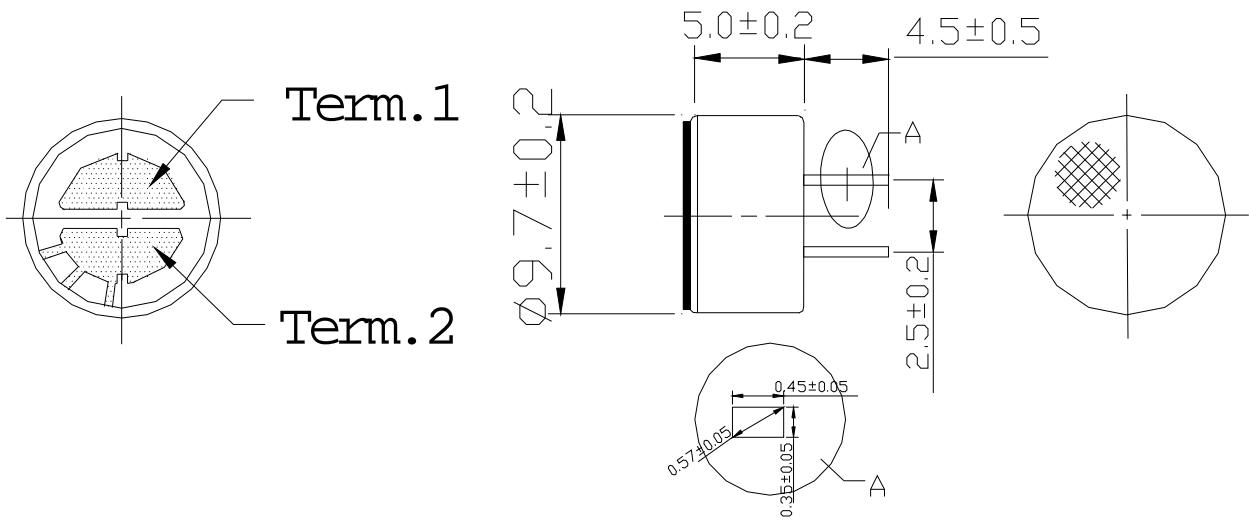
**SPECIFICATION of LD-MC-0905P**

<b>No.</b>	<b>Item</b>	<b>Unit</b>	<b>Specification</b>	<b>Condition</b>
1	Directivity		Omnidirectional	
2	Sensiivity	dB	-42±3dB	F=1KHz 0dB=1V/Pa
3	Standard operating voltage	V	3V	
4	Output impedance	Ω	2.2K	F=1KHz 1Pa
5	Max. operating voltage	V	10	
6	Sensitivity reduction	dB	-3	At 1.5V to 3.0V
7	Frequency	Hz	50~16000Hz	
8	Max.current consumption	mA	0.5	
9	Signal to noise ration	dB	60	F=1KHz 1Pa A weighted
10	Storage temp	°C	-20°C~+60°C	
11	Dimension	mm	Φ9.7×5.0	See appearance drawing
12	Material		AL	
13	Terminal		Pin Type	See appearance drawing

# TYPICAL FREQUENCY RESPONSE CURVE



# APPEARANCE DRAWING & MEASUREMENT CIRCUIT



**MECHANICAL CHARACTERISTICS**

NO.	item	Test condition	Evaluation standard
1	Soldering Heat Resistance	Soldering iron of $+330\pm 5$ should be placed on the terminal for $2\pm 0.5$ seconds.	No interference in operation
2	Vibration Test	The part shall be measured after being applied vibration of amplitude of 1.5mm with 10to 55hz band of vibration frequency to each of 3per-pendicular directions for 2hours.	After any tests, the sensitivity to be within $\pm 3\text{dB}$ .
3	Drop Test	The microphone unit without packaged must be subjected to each 3 drops at three axes from the height of 1 meter to 20mm thick wooden board.	

**ENVIRONMENTAL TEST**

NO.	Item	Test conditions	Evaluation standard
1	High temp.test	After being placed in a chamber at $+70$ for 72 hours.	After any tests, the sensitivity to be within $\pm 3\text{dB}$ of intial sensitivity after 6 hours of conditioning at $+25$
2	Low temp. test	After being placed in a chamber at $-25$ for 72 hours.	
3	Humidity test	After being placed in a chamber at $+60$ and $90\pm 5\%$ relative humidity for 240 hours.	
4	Temp.cycle test	<p>The part shall be subjected to 10 cycles.One cycle shall be consist of:</p> <p>The diagram illustrates a temperature cycle test profile. It starts at <math>+70^{\circ}\text{C}</math> for 1 hour, then ramps down to <math>+25^{\circ}\text{C}</math> over 0.5 hours. It remains at <math>+25^{\circ}\text{C}</math> for 1 hour, then ramps down to <math>-20^{\circ}\text{C}</math> over 0.5 hours. It remains at <math>-20^{\circ}\text{C}</math> for 1 hour, then ramps up to <math>+25^{\circ}\text{C}</math> over 0.5 hours. Finally, it remains at <math>+25^{\circ}\text{C}</math> for 1 hour. The total duration of one cycle is 5.5 hours.</p>	

**TEST CONDITION.**

Standard Test Condition: a)Temperature: $+5\sim +35$  b)Humidity:45-85% c)Pressure:860-1060mbar

Judement Test Condition: a)Temperature: $+25\pm 5$  b)Humidity:60-70% c)Pressure:860-1060mbar