

Microphone, Omnidirectional,
6mm dia., -24dB, leads &
connector

Part No.

ABM-723-RC

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A.SPECIFICATION

No.	Item	Unit	Specification	Condition
1	Directivity		Omnidirectional	
2	Sensitivity	dB	-24 ± 3 dB	F=1KHz, 1Pa 0dB=1V/Pa
3	Test condition		4.5V 2.2K Ω	F=1KHz 1Pa
4	Operating voltage range	V	1.5 - 10	
5	Sensitivity reduction	dB	-3	At 3.0V to 1.5V
6	Frequency	Hz	100~10000Hz	
7	Sound pressure level	dB	114	
8	Distortion		$\pm 3\%$	
9	Max.current consumption	mA	0.5	
10	Signal to noise ratio	dB	≥ 60	F=1KHz 1Pa A weighted
11	Storage temp	$^{\circ}\text{C}$	$-35^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
12	Operating temp	$^{\circ}\text{C}$	$-35^{\circ}\text{C} \sim +80^{\circ}\text{C}$	
13	Dimension	mm	$\Phi 6.0 \times 2.2$	See appearance drawing
14	Material		AL	
15	Terminal		Wire Type	See appearance drawing
16	Anti-interference	G	2.4	
17	Output impedance	Ω	$1.8\text{K} \pm 10\%$	

SPECIFICATIONS

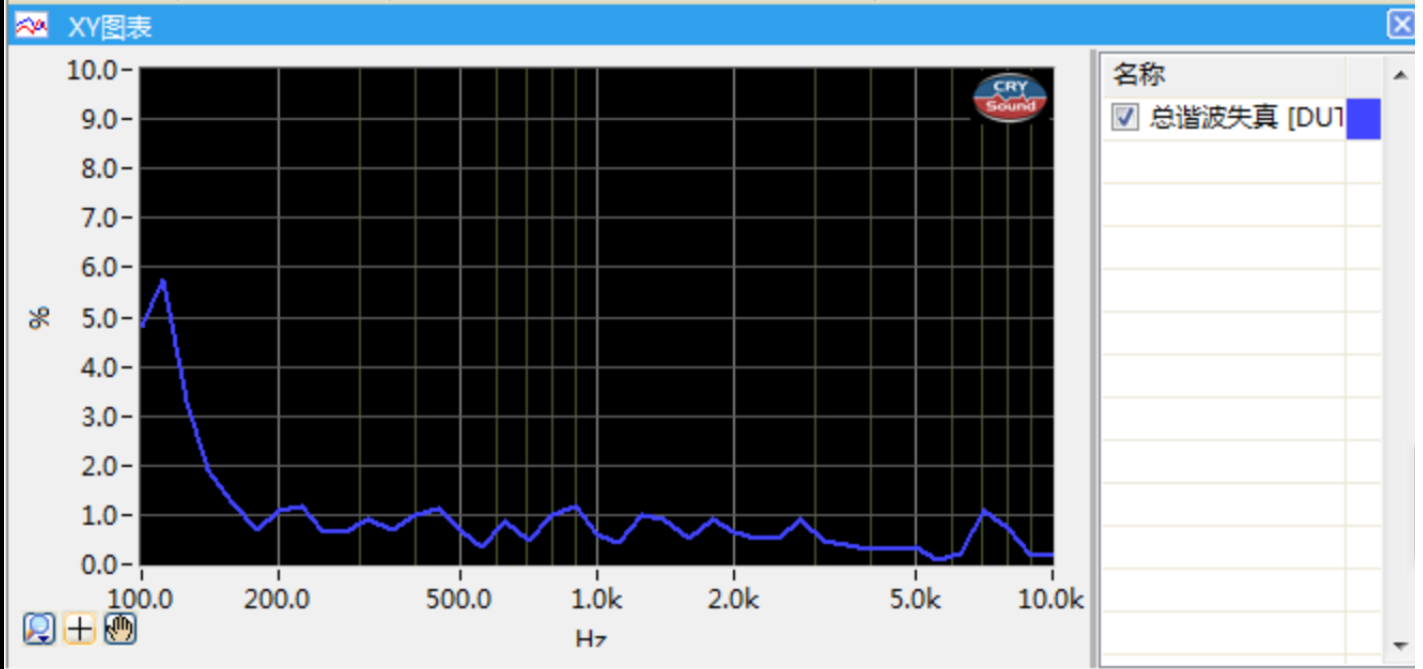
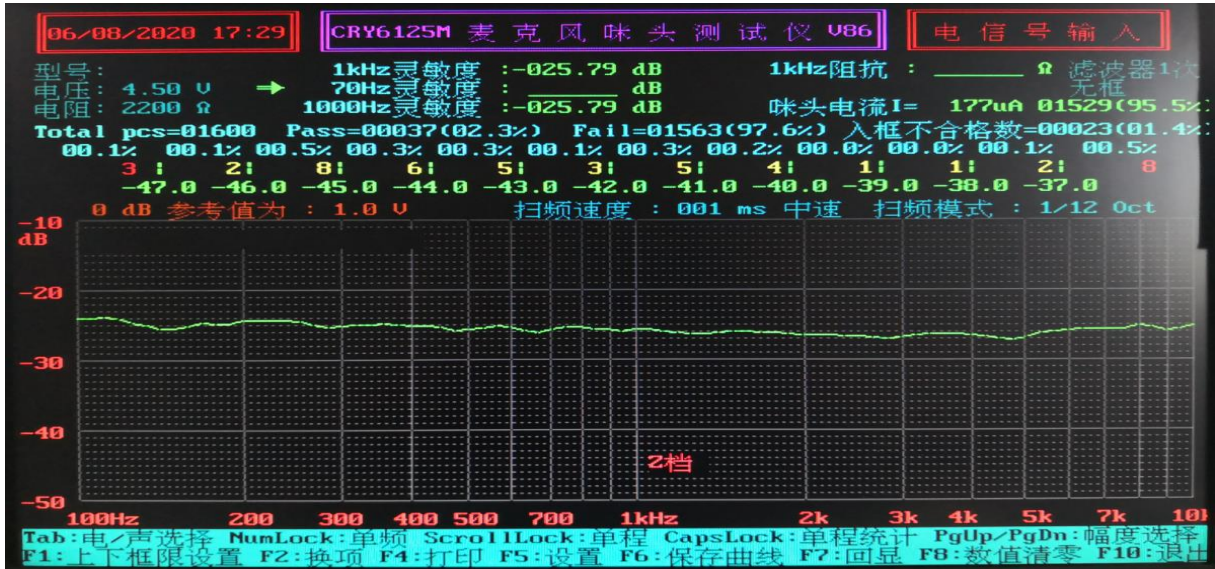
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B.TYPICAL FREQUENCY RESPONSE CURVE THD



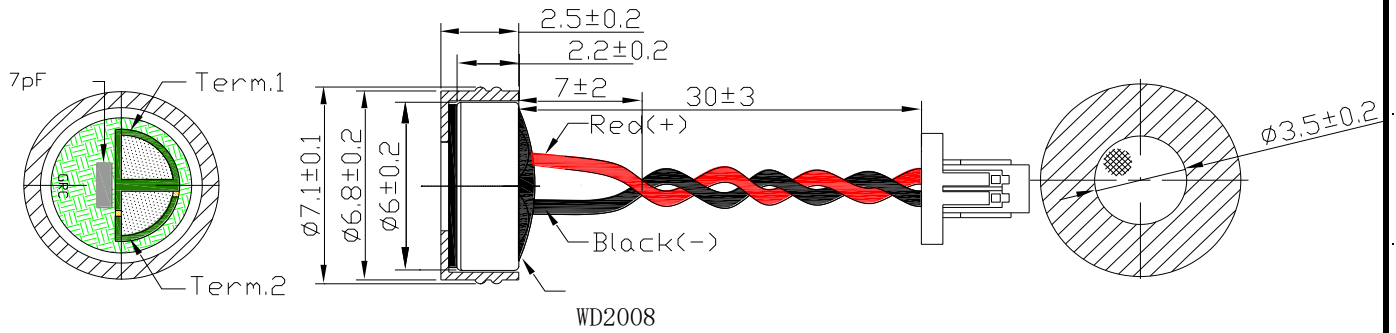
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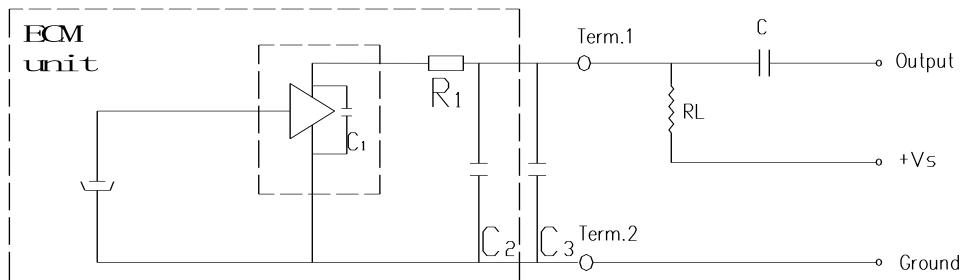
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Wire Type:UL3302 30AWG

Connector:SHR-02V-S-B



FET:2316TX
 C₁:FET 10pF
 R₁:330
 C₂:33pF
 C₃:7pF



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D. MECHANICAL CHARACTERISTICS

No.	Item	Test condition	Evaluation standard
1	Soldering Heat Resistance	Soldering iron of $+330\pm 5^{\circ}\text{C}$ should be placed on the terminal for 2 ± 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 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours.	After any tests, the sensitivity to be within $\pm 3\text{dB}$ of the initial sensitivity.
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.	



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E. ENVIRONMENTAL TEST

NO.	Item	Test conditions	Evaluation standard
1	High temp.test	After being placed in a chamber at +80°C for 72 hours.	After any tests, the sensitivity to be within ±3dB of initial sensitivity after 6 hours of conditioning at +25°C
2	Low temp. test	After being placed in a chamber at -40°C for 72 hours.	
3	Humidity test	After being placed in a chamber at +60°C and 90±5% relative humidity for 240 hours.	
4	Temp.cyle test	<p>The part shall be subjected to 10 cycles. One cycle shall be consist of:</p>	

TEST CONDITION

Standard Test Condition: a)Temperature:+5~+35°C b)Humidity:45-85% c)Pressure:860-1060mbar

Judgement Test Condition: a)Temperature:+25±5°C b)Humidity:60-70% c)Pressure:860-1060mbar



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