

Experiment Report

Date:2004/04/20

Experiment Project	Water-preventing experiment to condenser microphone MKW-6027-583-OX							
Experiment Purpose	Do water-preventing experiment to MKW-6027-583-OX according to customer's request. Put the mic. into the water under 1 meter for 30 minutes. And then take it out, see if there is any change to its sensitivity.							
Experiment Equipment	HY6016 Condenser microphone test machine, a hose(Φ 20mm,1.2m), a plate, a plastic film, elastic				Material		MKW-6027-583-OX	
Experiment Procedure	<ol style="list-style-type: none"> 1. Select qualified MKW-6027-583-OX Mic. Test and record the date.(DATA1). 2. Seal one end of the 1.2m hose with the film and elastics. Infuse water into it to 1m deep and set it upright. 3. Put the tested mic. into the water. 30 minutes later, Take them out and place on the plate to air-dry them. 4. After 5 hours' air-drying, test the sensitivity and the current of the mic. with HY6061.(DATA2) 5. Repeat step 1 and 2(save data as DATA3), then put tested mic into the water, 30 minutes later,take them out and place them into the oven at 60°C for 2 hours, and then take them out. 6. Cool MIC. for 2h and then test the sensitivity and current .(DATA4) 							
DATA Record	DATA1		DATA2		DATA3		DATA4	
	1KHZ	IDS	1KHZ	IDS	1KHZ	IDS	1KHZ	IDS
	-38.4	0.22	-38.6	0.22	-37.2	0.20	-38.2	0.20
	-38.8	0.19	-39.5	0.19	-39.9	0.23	-38.7	0.23
	-38.3	0.26	-39.4	0.26	-38.5	0.21	-38.6	0.21
	-39.0	0.24	-39.1	0.24	-38.8	0.19	-38.8	0.19
	-38.8	0.27	-39.3	0.24	-43.4	0.23	-43.8	0.23
	-39.0	0.23	-40.0	0.23				
Test Condition: 2V, 2.2K Ω								



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Experiment Result	The alteration of sensitivity at 1KHz is within +/-1.5dB before and after the experiment.
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Checked:

Record: