



盈福產品有限公司

**RINGFORD** *Products Limited*

**Electret Condenser Microphone**  
**SPECIFICATION**  
產品規格書

**CUSTOMER** : **Tait Radio Communications**  
**RINGFORD P/N** : **CZ034322-X5-CI33 (GP)**  
**REF NO.** : **RF-0008/11**

<b>DESIGNED BY</b>		<b>2012-8-22</b>
<b>CHECKED BY</b>		<b>2012-8-22</b>
<b>APPROVED BY</b>		<b>2012-8-22</b>

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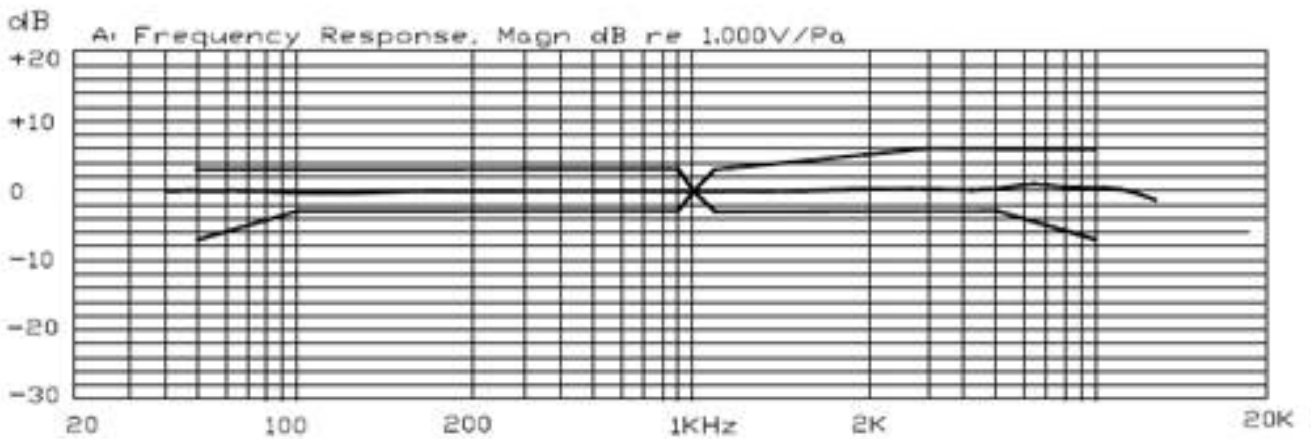
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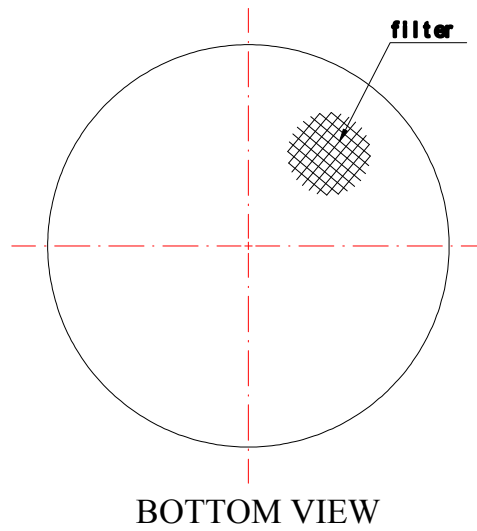
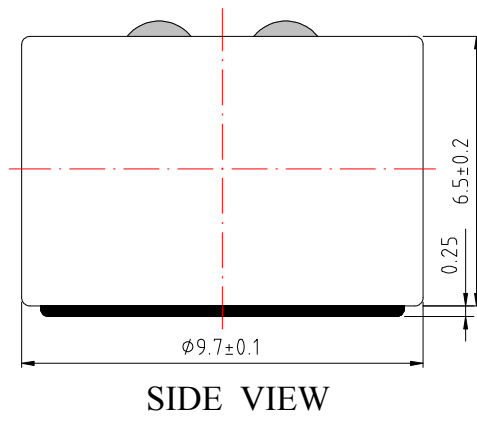
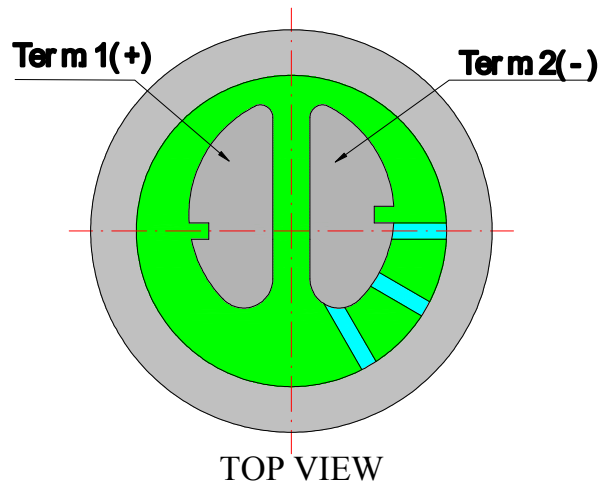
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1	TYPE		Omni-directional Electret Condenser Microphone
2	Model		CZ034322-X5-CI33
3	Electrical Specifications		
3-1	Sensitivity	$-32 \pm 2\text{dB}$ at 1KHz, $R_L=2.2\text{K}\Omega$ $V_s=4.5\text{V}$ 0dB=1V/Pa	
3-2	Impedance	Max 2.2K $\Omega$ 1KHz( $R_L=2.2\text{K}\Omega$ )	
3-3	Frequency	20~16000Hz	
3-4	Current Consumption	Max. 0.5mA	
3-5	Operation Voltage	1.0-10V	
3-6	Max. Sound Pressure Level	115dB SPL	
3-7	S/N Ratio	More than 58dB	
3-8	Sensitivity Reduction	Within -3 dB at 1.0V	

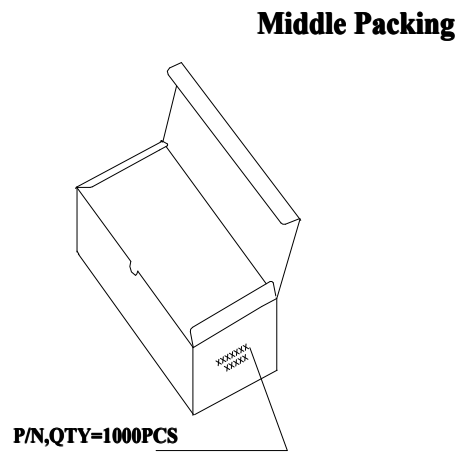
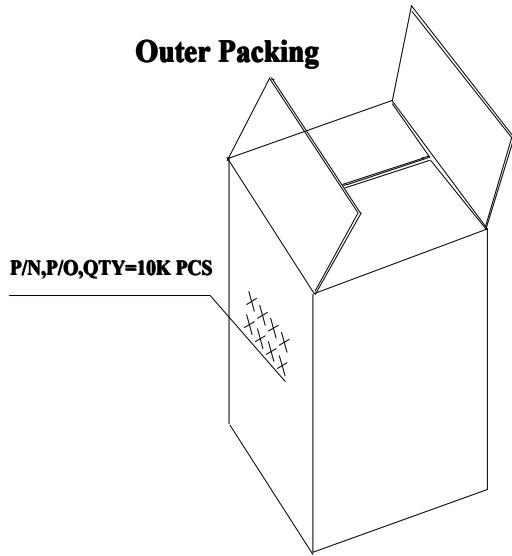
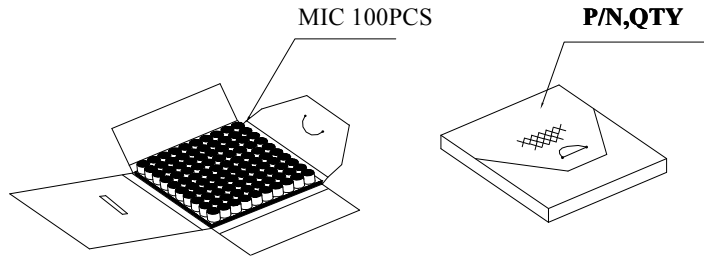
### 3-9 Typical Frequency Response Curve



4 Dimension(mm)



5 Packing



6	<p><b>Ambient condition</b></p> <p>1&gt;Operate condition   -10°C~+45°C R.H. less than 85%</p> <p>2&gt;storage condition   -20°C~+60°C R.H. in 45%~75%</p>
7	<p><b>Reliability Test</b></p> <p>1&gt; High Temperature Test                  To be no interference in operation after high temperature at 70°C ±3°C for 48 hours. The sensitivity to be within ±3dB from initial sensitivity.</p> <p>2&gt; Low Temperature Test                  To be no interference in operation after low temperature at -20°C ±3°C for 48 hours. The sensitivity to be within ±3dB from initial sensitivity.</p> <p>3&gt; Isotherm &amp; Iso-humidity Storage Test                  To be no interference in operation after storage test at temperature at +40°C ±2°C and relative humidity in 90%±3% for 48 hours, The sensitivity to be within ±3dB from initial sensitivity, the test is performed at room temperature after operation for 8 hours.</p> <p>4&gt; Temperature cycle Test                  After exposure at +55°C ±2°C for 1 hour, at +20°C ±2°C for 1 hour, at -10°C ±2°C for 1 hour, at +20°C ±2°C for 1 hour, with 5 cycles. Change of sensitivity within ±3dB from initial.(Measuring should be done after 2 hours exposed to room temperature)</p> <p>5&gt; Vibration Test                  To be no interference in operation after vibration of full amplitude 2mm for 30 minutes at three axes, the sensitivity to be within ±3dB from initial sensitivity.</p> <p>6&gt; Drop test                  To be no interference in operation after dropped to concrete floor each time from 1 meter of three directions of packing, the sensitivity to be within ±3dB from initial sensitivity.</p>

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### Certificate of Confirmed Products

SUPPLIER	盈 福(深圳)	BUYER	
MODEL	CZ034322-X5-CI33	SIZE	φ 9.7X6.5mm
TEST CONDITION	4.5V 2.2K Ω	QUANTITY	

### SPECIFICATIONS

1	Sensitivity	-32 ± 2dB
2	Impedance	low impedance Max.2.2K Ω
3	Frequency range	20Hz~16KHz
4	Max. operate voltage	10V
5	Standard operate voltage	4.5V
6	Current consumption	Max. 0.5mA
7	S/N ratio	more than 58dB
8	Sensitivity reduction	within -3dB at 1V

Customer  
Signature

Final confirmed

pass

refuse

accepted basic on

Remarks

\* \* \* \* The form must be confirmed by return fax after your test as your best regards \* \* \* \*

## TEST REPORT

MODEL	CZ034322-X5-CI33	TEST CONDITION	4.5V 2.2k Ω		
Description					
Directivity	omni-directional	sensitivity	-32±2dB		
Pin length	no pin	0dB=1V/Pa	1KHz		
Dimension	Φ9.7x6.5mm				
Item No.	靈敏度 Sensitivity(dB)	消耗電流 Idss(μA)	高度 High(mm)	外徑 O*D(mm)	針腳長 Pin Length(mm)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
MAX.					
MIN.					
AVG.					
判定					



備註					
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