

Description: micro dynamic speaker

Date: 12/06/2006

Unit: mm

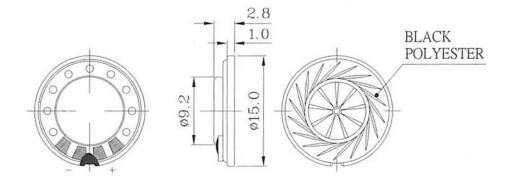
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Specifications

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Dimensions	ø15.0 x 2.8 mm	
Impedance	8 Ohm ± 15% at 1.5 KHz 1 V	
Resonant frequency	900 Hz ± 20% at 1 V	
Sound pressure level	92 dB/w ± 3 dB 0.3 w 10 cm at 1.0K, 1.2K, 1.5K, 2.0K Hz	
•	88 dB/w \pm 3 dB 0.1 w 0.1m at 1.0K, 1.2K, 1.5K, 2.0K Hz	
Response	Fo Hz ~ 20 KHz max.	
Distortion	10% max. at 1.5 KHz 0.3W	
Input power	Nominal 0.3 W Handling capacity 0.5 W	
Operation	must be normal at program source 0.3 W	
Buzz, rattle, etc.	must be normal at sine wave 1.55 V	
Operating temp.	-20 ~ +85°C	
Weight	1.2 g	
Material	Metal	
RoHS	yes	

Mechanical Drawing

Tolerance: ±0.2



The mylar will not exceed the metal frame when input is at the maximum power of 0.5W.



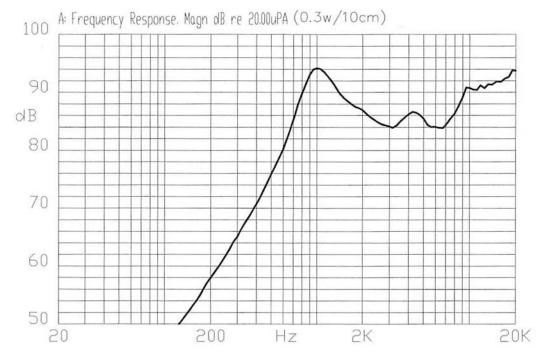


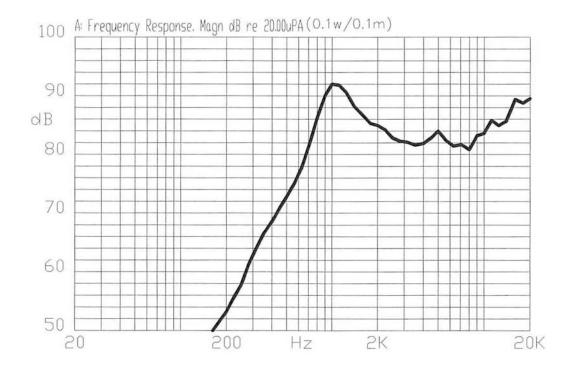
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Frequency Response Curve







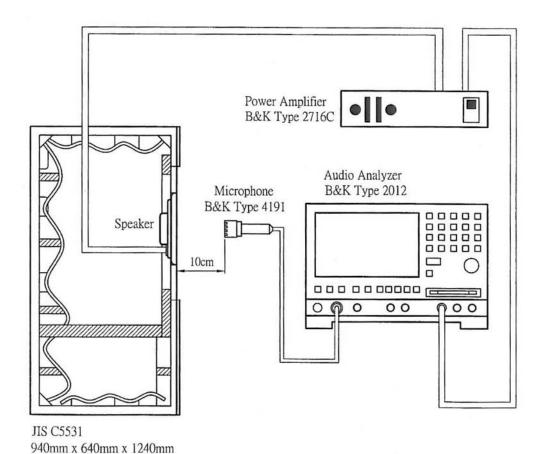
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Measurement Circuit





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Mechanical Characteristics

Item	Test Condition	Evaluation Standard
Solderability	Stripped wires of lead wires are immersed in	90% min. stripped wires will be
(Connector Excepted)	rosin for 5 seconds and then immersed in	wet with solder.
	solder bath of +270 ±5°C for 3 ±0.5 seconds.	(Except the edge of the terminal.)
Lead Wire Pull Strength	The pull force should be applied to double lead	
	wire:	No damage or cutting off.
	Horizontal 3.0N (0.306kg) for 30 seconds	
	Vertical 2.0N (0.204kg) for 30 seconds	
Vibration	The speaker should be measured after applying	1
	a vibration amplitude of 1.5 mm with 10 to	No obstacle will be harmful to
	55 Hz band of vibration frequency to each of	normal operation; damage,
	the 3 perpendicular directions for 2 hours.	cracks, rust, and distortions.
Drop Test	The part will be dropped, contained inside a	Should not be audible at 1.55 V
	normal box, from a height of 75 cm onto a 40	sine wave between Fo ~ 20 KHz.
	mm thick wooden board 10 times.	

Environment Test

Item	Test Condition	Evaluation Standard
High temp. test	After being placed in a chamber at 85°C for 8 hours.	
Low temp. test	After being placed in a chamber at -20°C for 96 hours.	
Humidity test	After being placed in a chamber at +60°C and 90% relative humidity for 240 hours.	The speaker will be measured
Temp. cycle test	The part shall be subjected to 5 cycles. One cycle will consist of: +85°C +25°C -20°C -2hrs 6hrs	after being placed at +25°C for 6 hours. No obstacle will be harm ful to normal operation; damage cracks, rust, and distortions. Should not be audible at 1.55 V sine wave between Fo ~ 20 KHz The SPL should be within ±3dB when compared to the initial measurements.



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Reliability Test

Item	Test Condition	Evaluation Standard
Load Test	0.3 W white noise, applied for 24 hours, at room temperature.	The speaker will be measured after being placed at +25°C for 1 hours. No obstacle will be harm ful to normal operation; damage, cracks, rust, and distortions. Should not be audible at 1.55 V sine wave between Fo ~ 20 KHz. The SPL should be within ±3dB when compared to the initial measurements
		cracks, rust, and distortions Should not be audible at 1.9 sine wave between Fo ~ 20 The SPL should be within ±

Test Conditions

Standard Test Condition
Judgement Test Condition

a) Tempurature: +5 ~ +35°C

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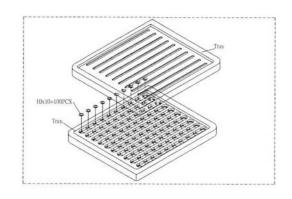
b) Humidity: 45 - 85%

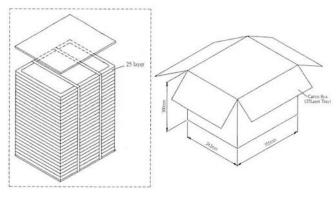
b) Humidity: 60 - 70%

c) Pressure: 860-1060 mbar

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Packaging





Tray	350mmx235mmx20mm	1x100PCS=100PCS
Carton Box	355mmx242mmx300mm	100PCSx25=2500PCS