

SPECIFICATION

受 控

Customer : QUARTZ

Applied To :

Product Name : SPEAKER

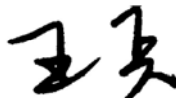
Model Name : KP3051SP1-7505

Drawing No. : KFC7505

Signature of Appronal

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Signature of KEPO

Approved by	Checkde by	Issued by	Date
			



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1. Scope

This specification is applied to the dynamic speaker which is used all of the electrical acoustic product.

-- compact, rich sound

-- applications: mobile phone, PDA, notebook computer, etc. ...

2. General

2.1 Out-Diameter : 30 mm

2.2 Height : 6.4 mm

2.3 Weight : 8.5 g

2.4 Operating Temperature range:

-20~+60℃ without loss of function

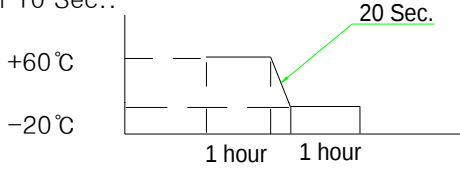
2.5 Store Temperature range:

-30~+75℃ without loss of function

3. Electrical and Acoustic Characteristics.

Test condition : 15 ~ 35 ℃, 25% ~ 85% RH, 860~1060 mbar

No	Items	Specification
1	Impedance	8 Ω ± 15% (1Vrms at 2KHz)
2	Sound Pressure Level	92 dB ± 3dB (0.1W/0.1M- at 0.8k;1k;1.2k;1.5kHz AVE)
3	Resonance Frequency	650 Hz ± 20%
4	Frequency Range	Fo ~10KHz
5	Input Power	Rated 2 W / Max. 2.2 W
6	Distortion	5% Max. at 1kHz/1Vrms
7	Buzz and Rattle	Should not be audible buzzes,rattles when the 4V sine wave signal swept at frequency range.
8	Polarity	When supplied plus D.C. voltage to (+) terminal, the cone diaphragm must move to forward.

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4. Reliability Test After test(1~7item), the speaker S.P.L . difference shall be within $\pm 3\text{dB}$, and the appearance not exist any change to be harmful to normal operation (e.g. cracks,rusts,damages and especially distortion).			
No	Items	Specification	
1	High Temperature Test	After being placed in a chamber with $+75\pm 3\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
2	Low Temperature Test	After being placed in a chamber with $-30\pm 3\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
3	Humidity Test	After being placed in a chamber with 85 to 90%R.H. at $+40\pm 2\text{ }^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 1 hour, speaker shall be measured.	
4	Thermal Shock Test	After being placed in a chamber at $+60^{\circ}\text{C}$ for 1 hour, then speaker shall be placed in a chamber at -20°C for 1 hour(1 cycle is the below diagram). After 4 above cycles, speaker shall be measured after being placed in natural condition for 10 Sec.. 	
5	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55Hz band of vibration frequency to each of 3 perpendicular directions for 1 hour, then placed in natural condition for 1 hour, speaker shall be measured.	
6	Drop Test	The speaker when mounted in the jig which weight 85g~100g, shall with stand 15 times random drops from a height of 1.5 meter to a concrete floor faced with 5mm thick hard wood board.and be nothing mechanical damage.	
7	Load test	After being applied loading white noise with input power 2W(4Vrms.) for 96 hours, then placed in natural condition for 1 hour, speaker shall be measured.	
8	Insulation test	When they are measured with DC 100V the insulation resistance between v.c. terminal and frame must be more than 1 MΩ	

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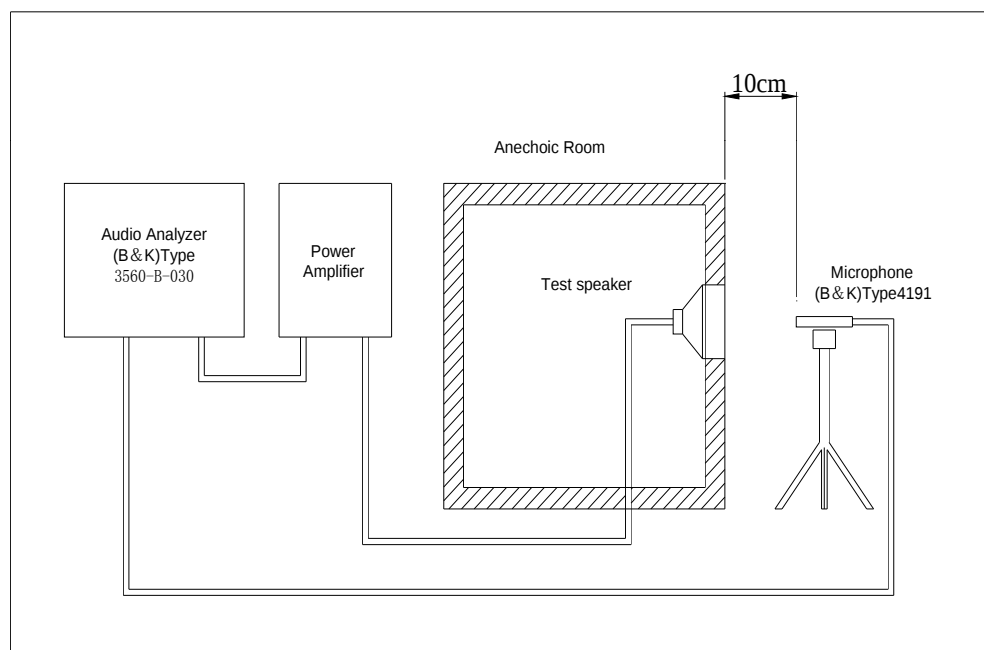
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5. Measurement Block Diagram & Response curve



[dB/20.0u Pa]

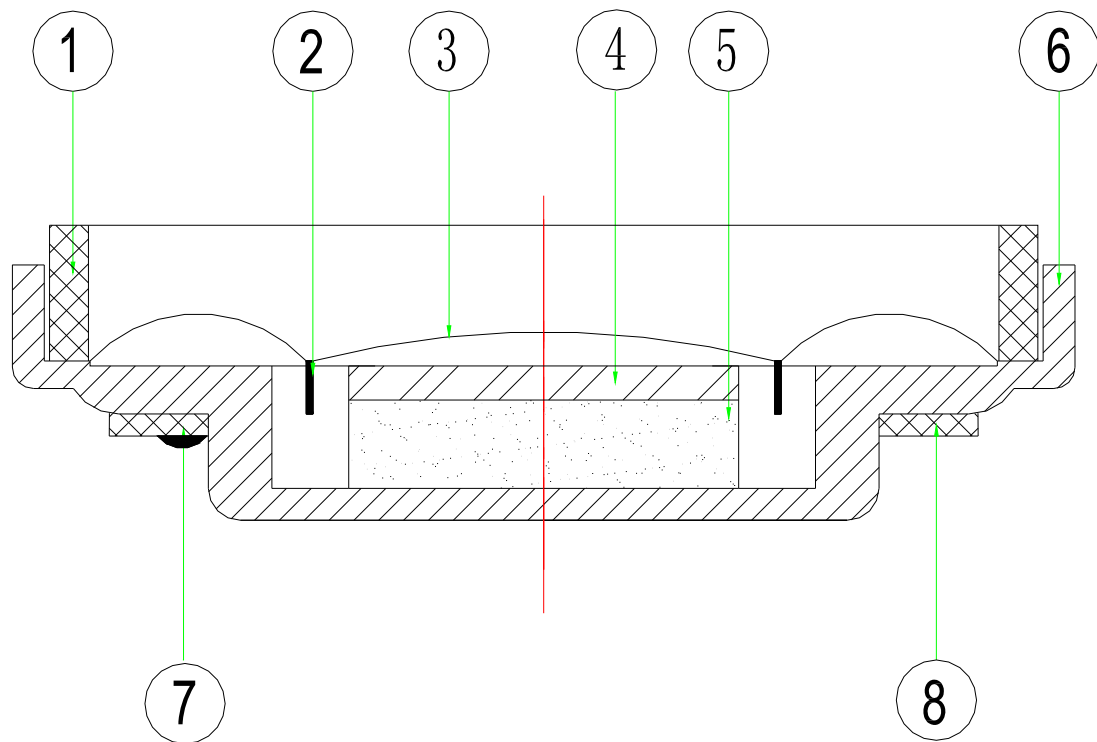
Output Response (Signal1) - Input Magnitude

Working : Input : Input : SSR Analyzer



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6. Structure



No.	Part Name	Q'ty	Material	Remarks
8	Screen	1	Net	
7	Terminal	1	Epoxy PCB	
6	Frame	1	SPCC	
5	Magnet	1	Nd-Fe-B	
4	Plate	1	SPCC	
3	Diaphragm	1	PET	
2	Voice Coil	1	Copper	
1	Gasket	1	Paper	

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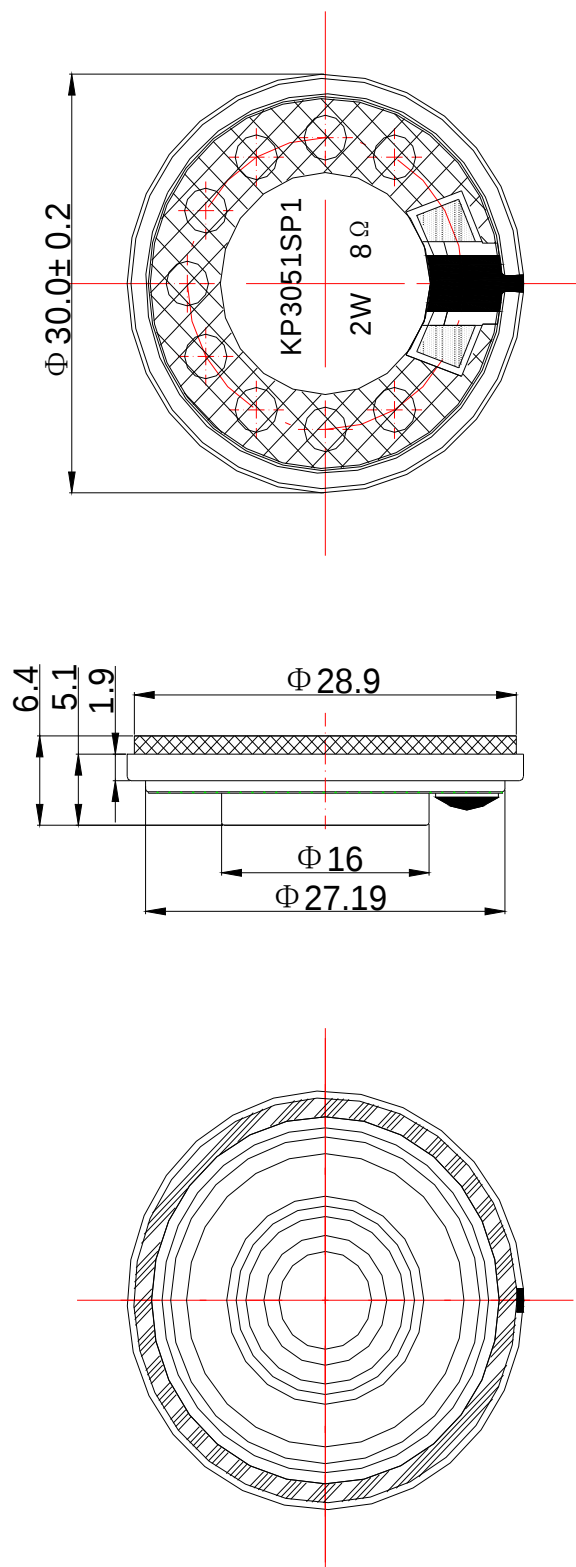
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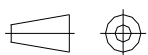
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7. Dimensions



FIRST ANGLE PROJECTION



UNIT : mm

Tolerance : ± 0.2

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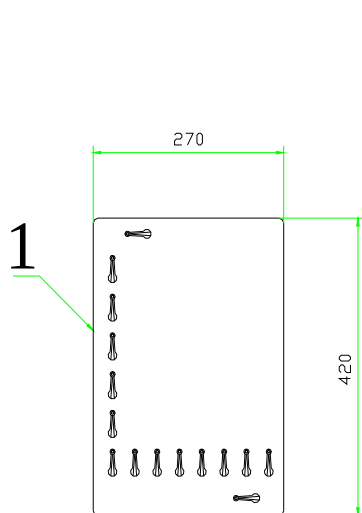
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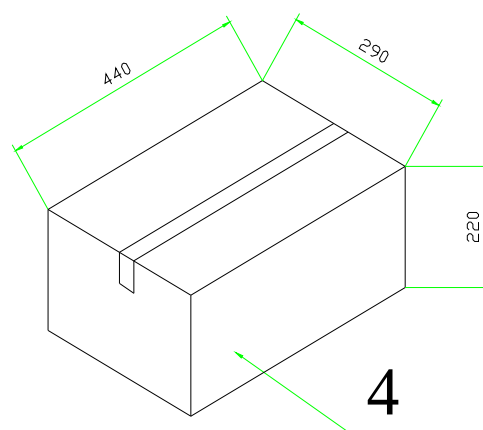
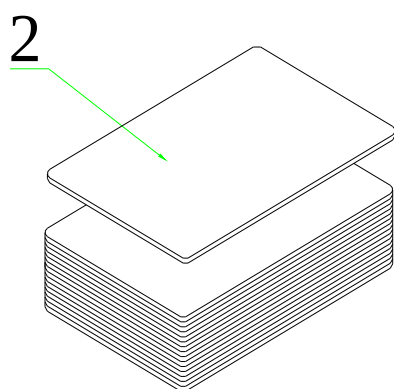
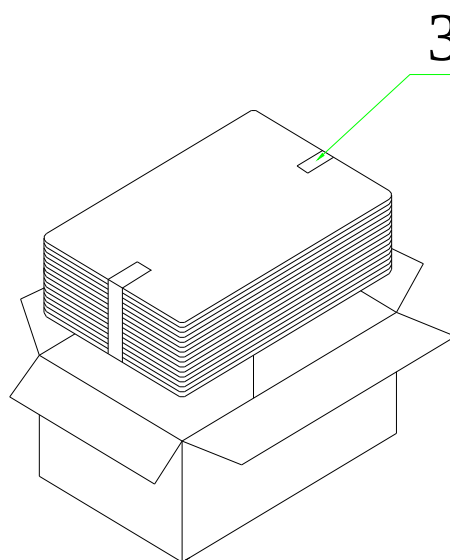
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8. Packing



50Pcs



QTY: 800Pcs

440 x290 x220

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