

Electrical and Acoustical Parameter

Input Voltage (Vp-p)	16.0
Sound Pressure Level (dBA @ 10cm/5Vrms at muffle room) (average 1.0, 1.5, 2.0, 2.5kHz)	Min. 80
Resonance Frequency F0(Hz)	1800±100
Frequency Range (Hz)	300~20000
Electrostatic Capacitance (nF at 120Hz/1V/25°C)	600±30%
Remark:	Water-proof design

Mechanical, Environmental Parameter

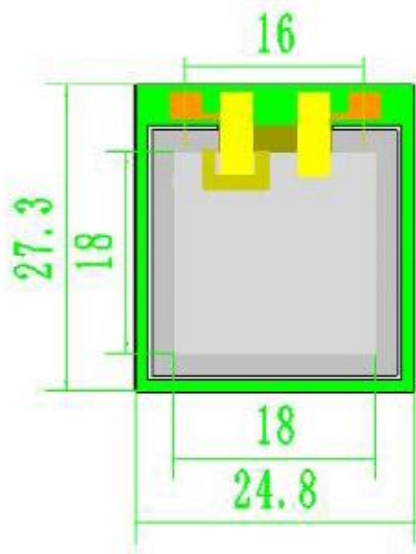
Contact / Wire	Pad
Operating Temperature (°C)	-20 to +70
Storage Temperature (°C)	-30 to +85
Component Weight (g)	n.a.
Packaging	tray in box
Remark:	

Approval

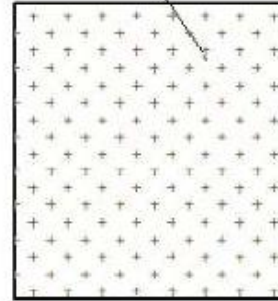
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UL	<input type="checkbox"/>

Designed by	MZ	15.03.2012	Dimensions without tolerance ±0.5mm	Index: 00	Current date
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Drawing of Component

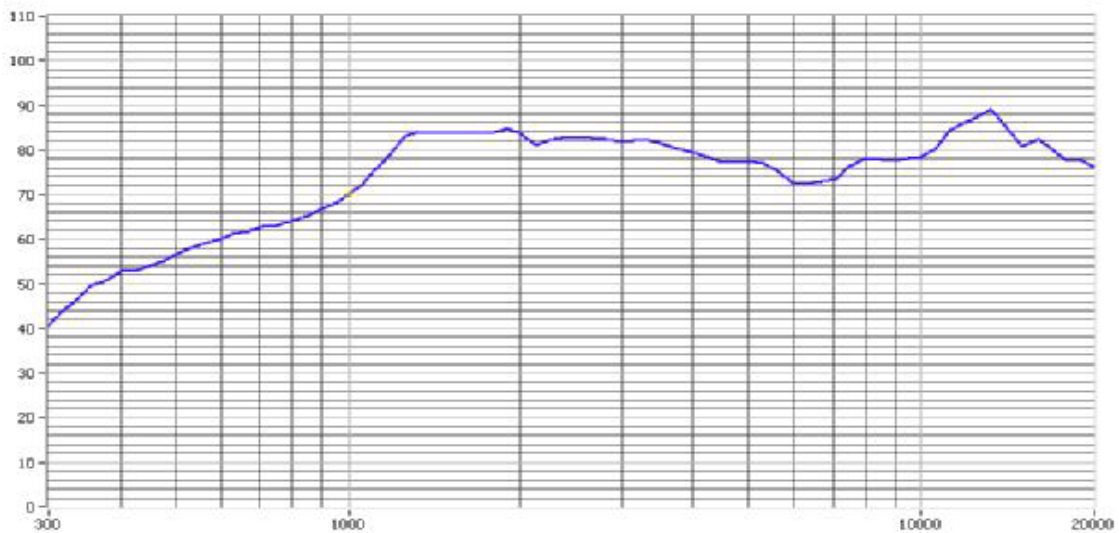


double-faced adhesive tape



Tol: ± 0.3mm

Typical Frequency Curve



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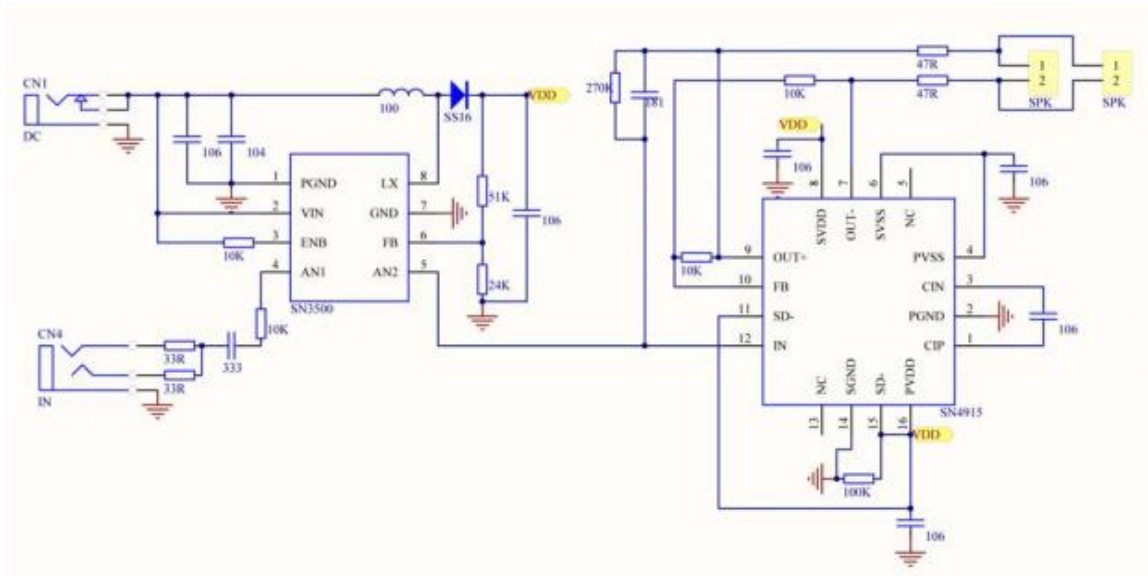
Reliability

No	Experiment Item	Conditions	Test Standard
1	Shocking Test	Room temp. Sweep Fre.. 10—55Hz Amplitude 1.5mm/XYZ axis/2 Hrs	SPL should be met Initial average±3dB (1KHz/1.5KHz/2KHz/3KHz)
2	Drop Test	Put it in a Jig with its weight 150g, dropping in 6 directions of surfaces with 3 times per surface under the height of 150cm	
3	PCB solderability	Put it in salt mist for 24 Hrs (+35°C, mass percent of NaCl :5%)	Immerse PCB into the liquid tin (245±5°C/3.0±0.5s) Tin cover : ≥95%
4	Storage under High temp.	85±2°C/240 hous ,then 4 Hrs in room temp.	SPL average±3dB (1KHz/1.5KHz/2KHz/3KHz)
5	Storage under Low temp.	-30±2°C /240 hours , then 4 Hrs in room temp.	
6	Storage under High temp.& humid	+60±2°C/RH90—95%/240Hrs ,then 4 Hrs in room temp.	
7	Power on UnderHigh temp.,humid	+60±2°C /RH90—95%/240Hrs/5Vrms (300 ~20000Hz/ Step10Hz/ LT10s) , then 4 Hrs in room temp.	
8	thermal shock	-30°C/30mins. , then put it in +85°C within 2-3min for 30mins. , repeat 20 times , then 4 hours in room temp.	
9	Max Voltage	Loading Voltage 16Vpp/0.5 hour in room temp (Fre.300~20000Hz,Step:10Hz,LT: 10s). The voltage is setted to be the Max Value of Voltage as per the required in the Specm then 4 Hrs in room temp.	
10	Lift Test	Under room temp., make it at work for 240 hours at 5Vrms/1KHz, then 4 hours in room temp.	

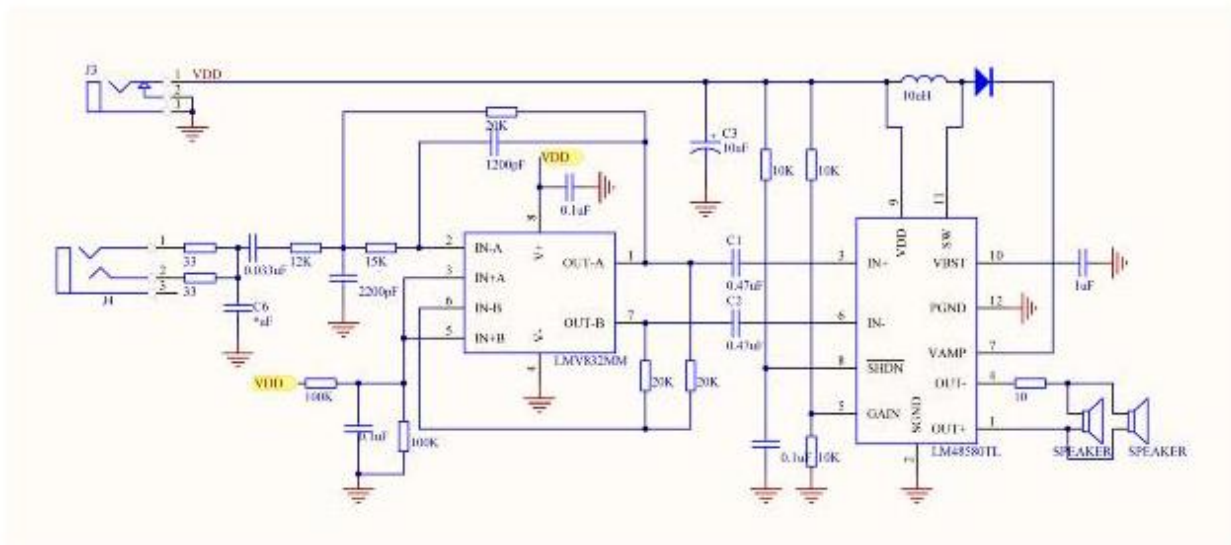
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Recommended Driving Circuits

Circuit: SN3500+SN4915 (Vout: 20V)

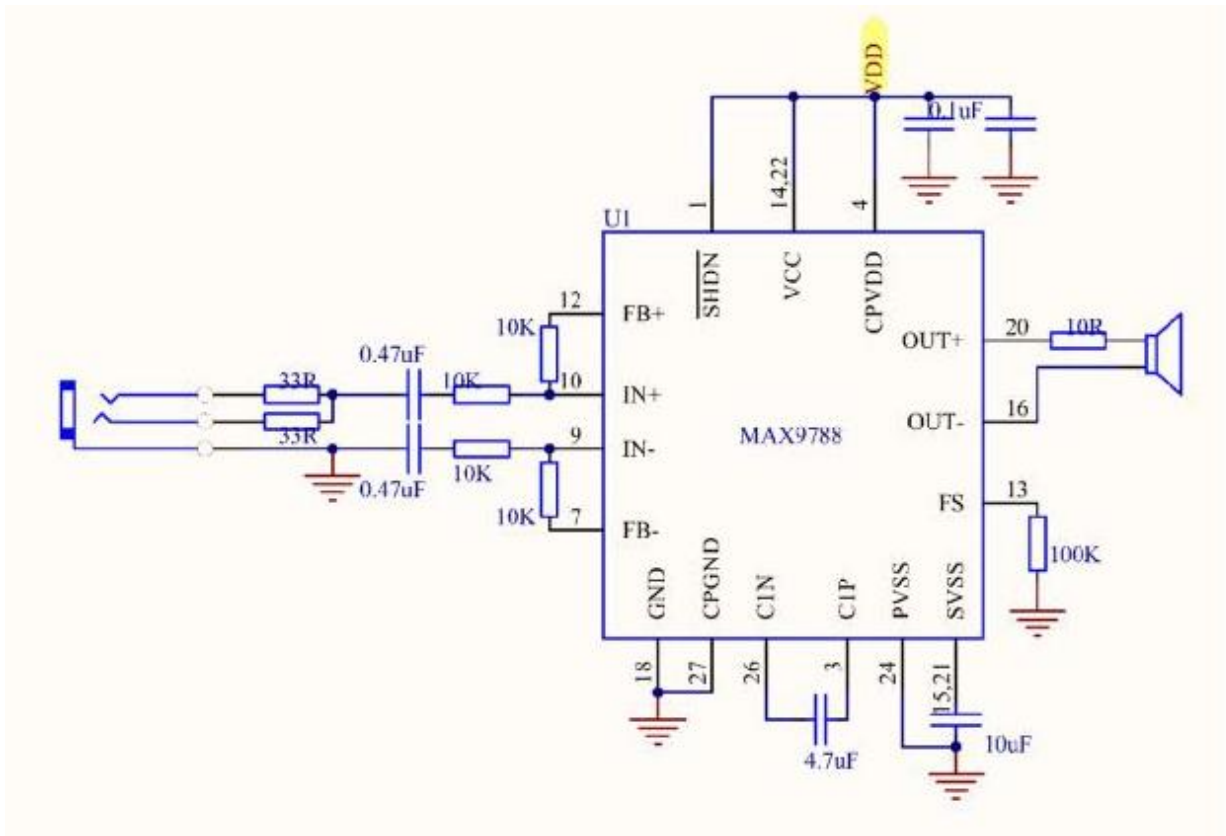


Circuit: LMV832MM + LM48580TL (Vout: 24V)

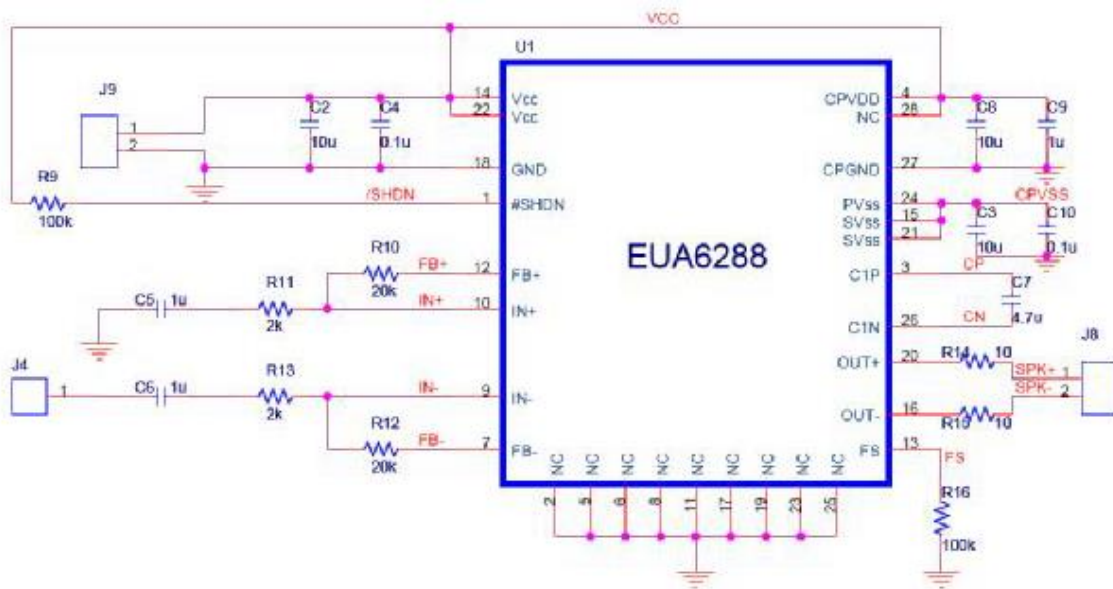


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Circuit: Max9788 (Vout: 14V)



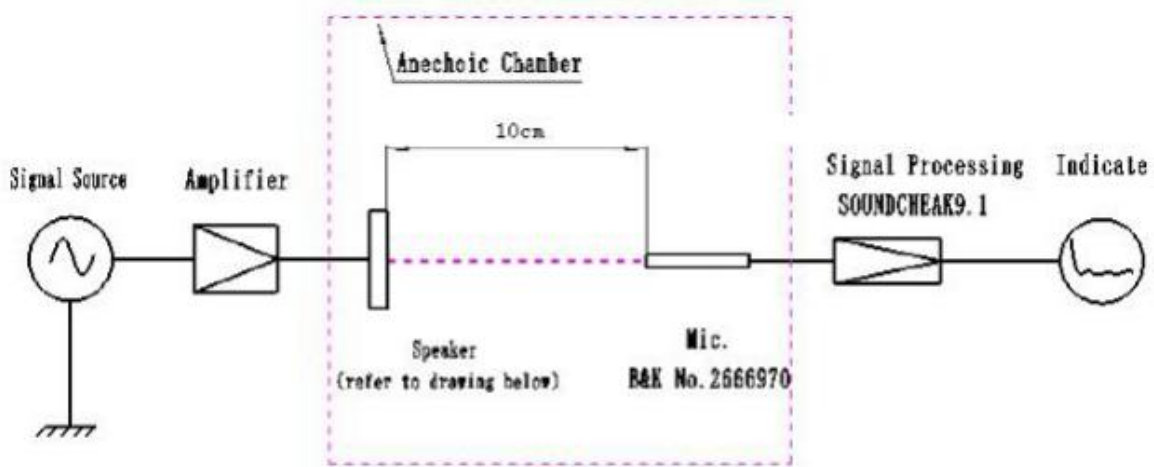
Circuit: EUA6288 (Vout: 14V)



The voltage for above recommended circuits are under low 2.7-5.5V.

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Test Method



The speaker, being tested in an anechoic chamber, is installed in a baffle of 135cmx165cm.

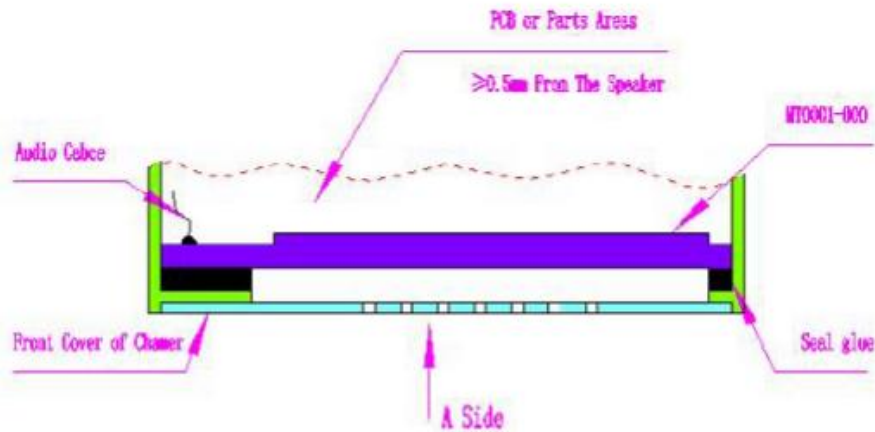
Conditions of testing:

10cm between microphone and the centre of speaker

Voltage: 5Vrms

Sweep frequency range: 300Hz -10KHz

Design and Installation



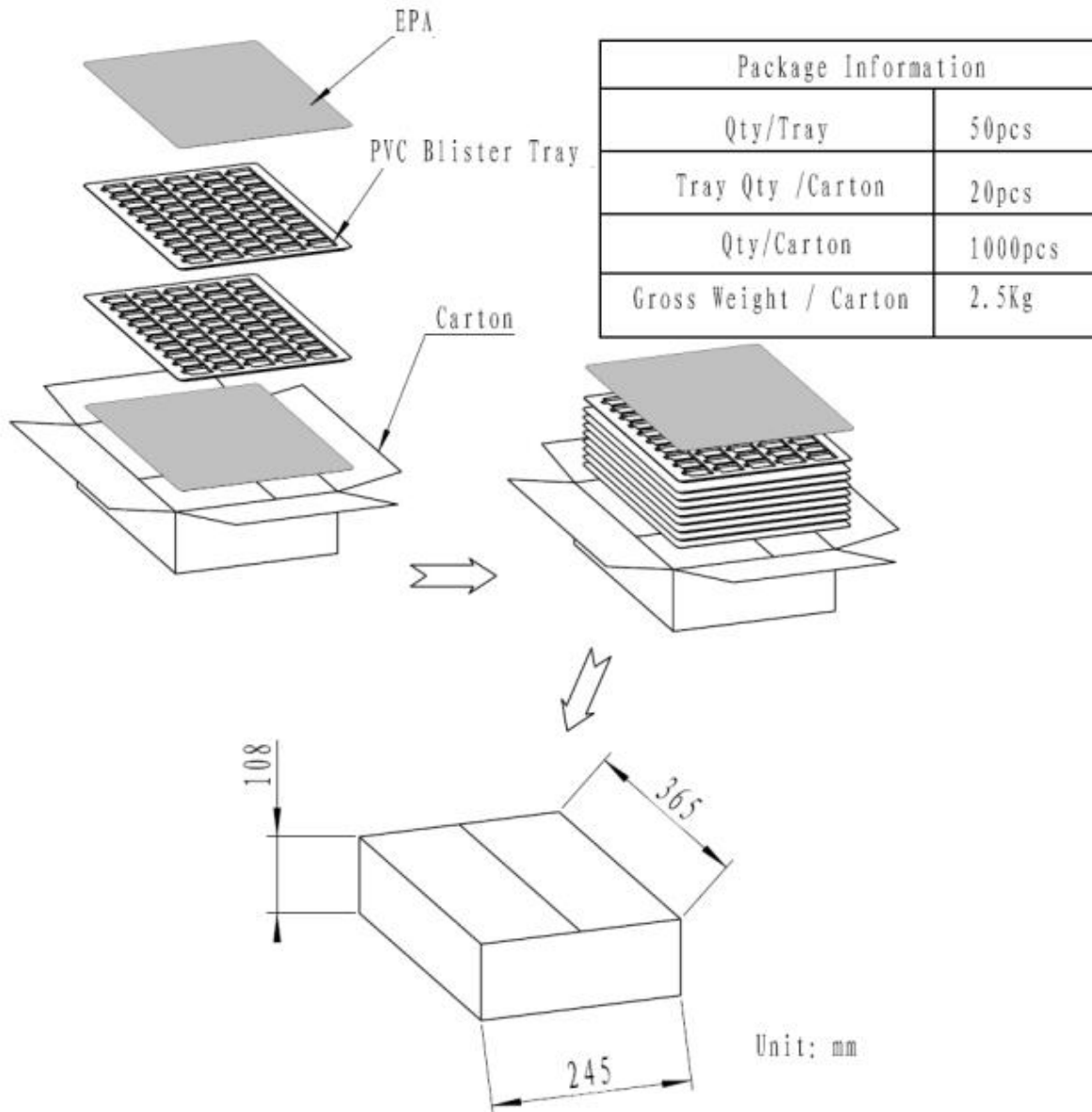
Sound Hole design Schemes in A side:



Installation schemes for the sound reproduction in front side

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Packaging



Revision Table

Index Nr.	Date Reason - Procedure Change description	Drawing Date	implementation	Comments
			LS-Nr.: Date	

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