



SPECIFICATION

DYNAMIC RECEIVER

CUSTOMER:

Haosheng P/N: XHR090803WW20P20-03-RH

CUSTOMER P/N:

DATE: 2019-4-3

APPROVER	CHECKER	DESIGNER

CUSTOMER APPROVER

SIGNATURE	IMPRINTMENT

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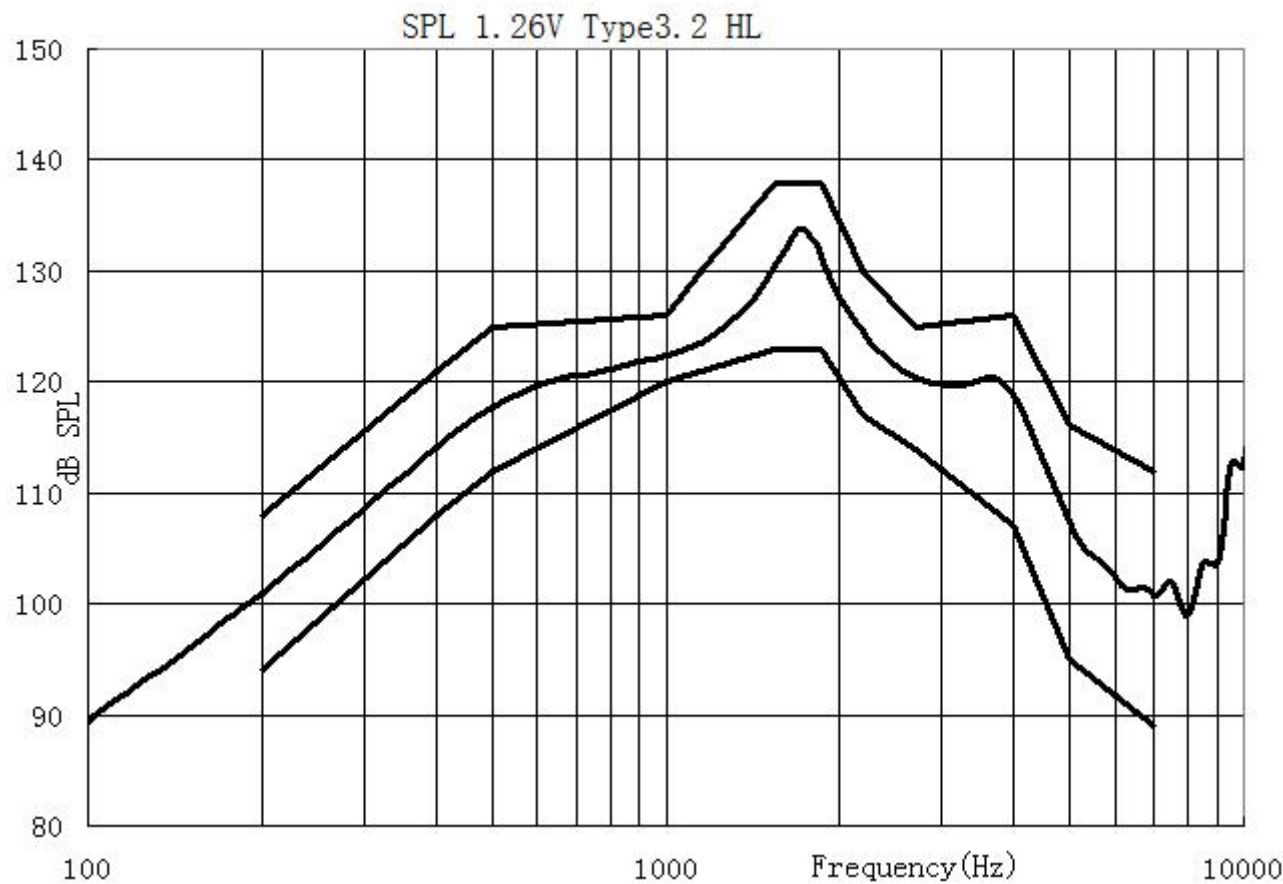
ZHE JIANG HAOSHENG ELECTRONIC TECHNOLOGY CO.,LTD. TEL:86-573-84645930 、 84646197 FAX:86-573-84646190 E-mail: services@xh-haosheng.com.			SPECIFICATIONS (1/11)			
			TYPE NO.	XHR090803WW20P20-03-RH		Issue:A/8
Environmental Requirement	HF	✓	RoHS	✓	REACH	✓
Revision						
No	Date	Page	Description			Sign
1	2018-8-3	2/11	SPEC Updated			WSQ
2	2018-8-6	8/11	SPEC Updated			WSQ
3	2018-9-17	7,9/11	SPEC Updated			WSQ
4	2018-10-16	8/11	Add Polarity identification and direction of diaphragm			WSQ
5	2018-11-21	11/11	Update details of package			WSQ
6	2019-2-20	10/11	Update details of Permitted Force to Receiver			WSQ
7	2019-4-3	8/11	Add safe distance of front cavity			WSQ
8	2019-4-11	2/11	SPEC Updated			WSQ
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		TYPE NO.	XHR090803WW20P20-03-RH	Issue:A/8
1. Product Outline				
1.1 Scope	This specification is a typical receiver unit for telephone handset			
1.2 Dimensions	As shown in figure 6			
1.3 Net Weight	Approx 0.4 grams			
1.4 Operating Temperature Range	-30℃ to +70℃ without loss of function			
1.5 Storage Temperature Range	-40℃ to +85℃ (Note: Return to ambient room temperature before using)			
2. Electroacoustic Characteristics				
2.1 Impedance	AC: 30±20% ohm DC: 28±20% ohm			
2.2 Sound Pressure Level	123 ± 3 dB At 1.26Vrms 1kHz @type3.2			
2.3 Bass Resonance Frequency	500±100 Hz in free air			
2.4 Rated Frequency Range	300 Hz- 7 kHz			
2.5 Frequency Response	See Figure 1, Table 1			
2.6 Iput Power (Rated./Max.)	Rated Power: 50mW Maximum Power: 80mW			
2.7 Rub and Buzz:	A sine sweep among rate frequency range at 1.26Vrms with test jig for a period of 1 second will not result in any buzzing or extraneous sound			
2.8 THD	See Figure2 , Table 2			

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	TYPE NO.	XHR090803WW20P20-03-RH	Issue:A/8

3. Frequency Response

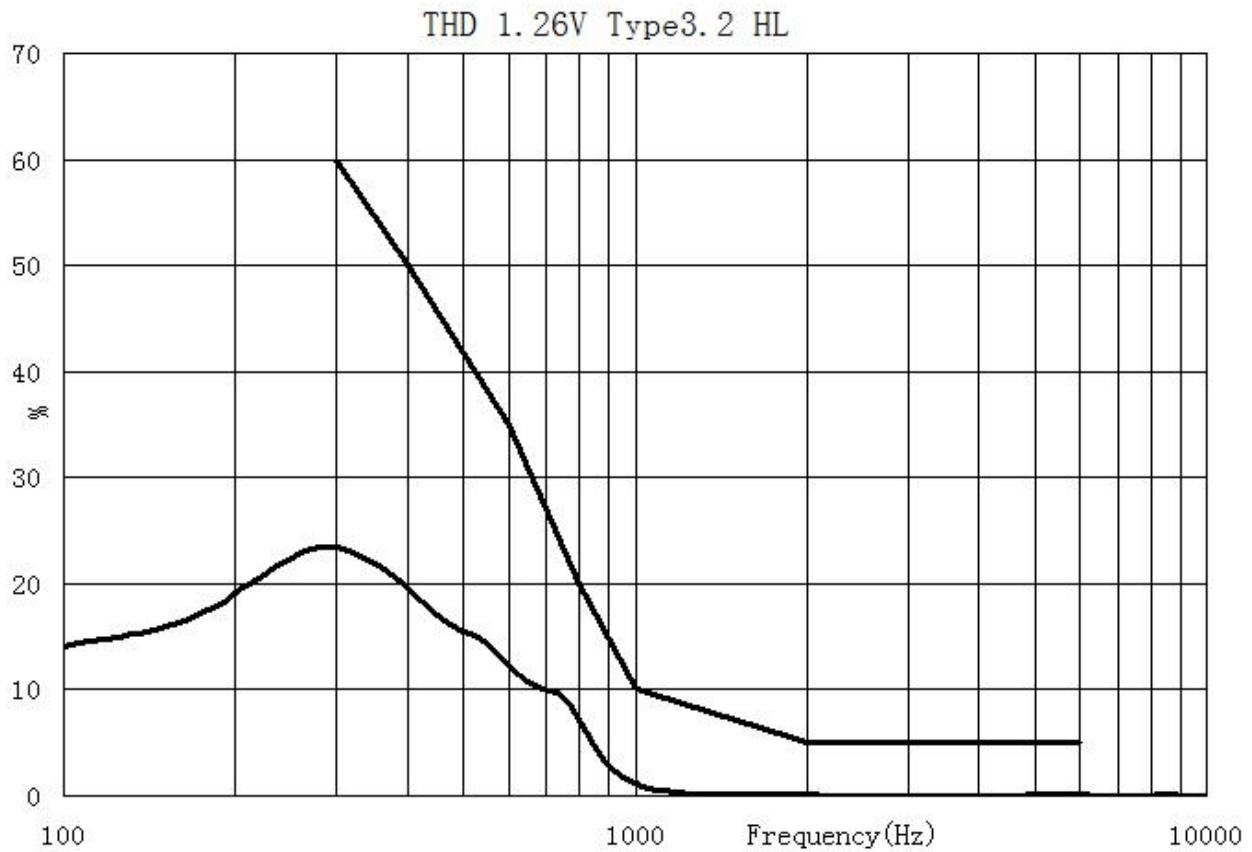


(Figure 1)

Table 1:Tolerance Limits Data for FR

Frequency(Hz)	Upper Limits(dB)	Frequency(Hz)	Lower Limits(dB)
200	108	200	94
400	121	400	108
500	125	500	112
1000	126	1000	120
1150	130	1150	121
1550	138	1550	123
1850	138	1850	123
2200	130	2200	117
2700	125	2700	114
4000	126	4000	107
5000	116	5000	95
7000	112	7000	89

4. Total Harmonic Distortion

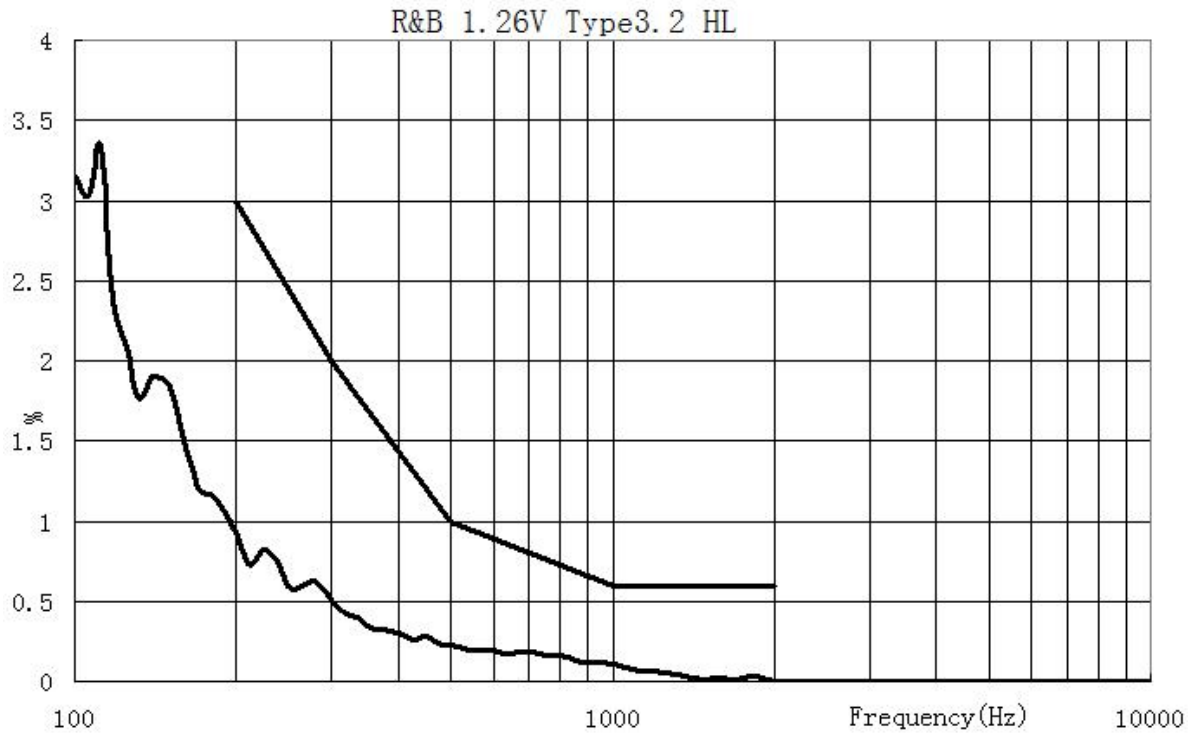


(Figure 2)

Table 2: Limits Data for THD

Frequency(Hz)	Limits
300	60
400	50
600	35
800	20
1000	10
2000	5
6000	5

5. Rub&Buzz Harmonic



(Figure 3)

Table 3: Limits Data for Rub&Buzz

Frequency(Hz)	Limits
200	3
300	2
500	1
1000	0.6
2000	0.6

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	TYPE NO.	XHR090803WW20P20-03-RH	Issue:A/8

6.Test Method

6.1 Sensitivity and Frequency Response Curve:

The receiver shall be mounted in a fixture shown in Figure 5 .and the recommended acoustic measuring devices are shown below in figure 4. The swept sine-wave frequency range is 100-10kHz(input 1.26Vrms) .

6.2 T.H.D:

The receiver shall be mounted in a fixture shown in Figure 5 .and the recommended acoustic measuring devices are shown below in figure 4. The swept sine-wave frequency range is 100-10kHz(input 1.26Vrms) .

Figure 4 illustrates the test setup for sensitivity and frequency response curve measurement. A computer (TRUST) is connected to a sound card, which outputs to a power amplifier. The power amplifier is connected to a microphone fixture (REC) via a Type 4195 high head. A microphone power supply is connected to the sound card input and the microphone fixture.

Figure 5 shows the dimensions of the microphone fixture. The top view shows a circular fixture with a central square opening. The bottom view shows a cross-section of the fixture with a central square opening. Dimensions include 9.2, 8.2, 1.5, 32.5, 39, and 0.6t BUBBER.

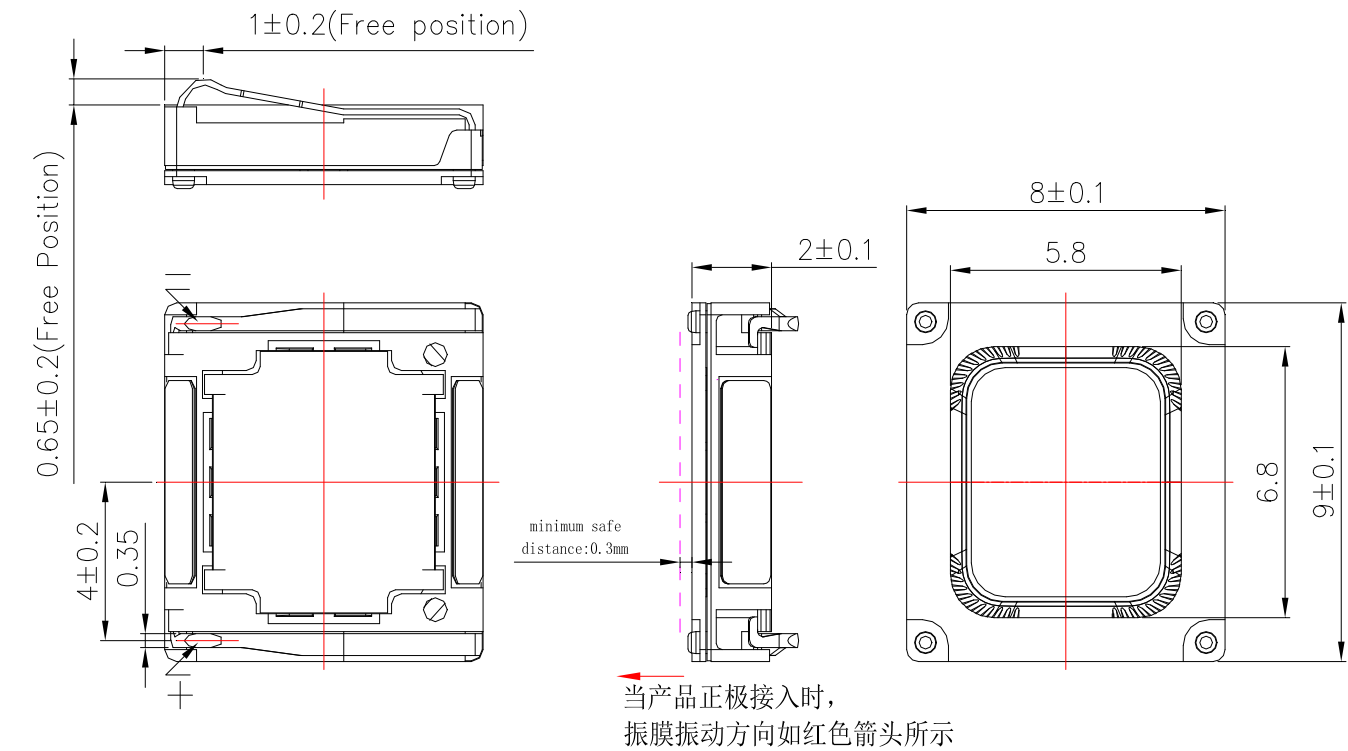
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		TYPE NO.	XHR090803WW20P20-03-RH	Issue:A/8
7. General Reliability				
7.1 General	After any following tests the response at 1 KHz shall not deviate more than ±3 dB from the initial value			
7.2 Temperature Shock Test	Temperature: -40°±3°C ↔ +85°±3°C Cycle: 25 cycles Duration: 45 minutes			

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8. Mechanical Layout and Dimensions
8.1 Mechanical Layout



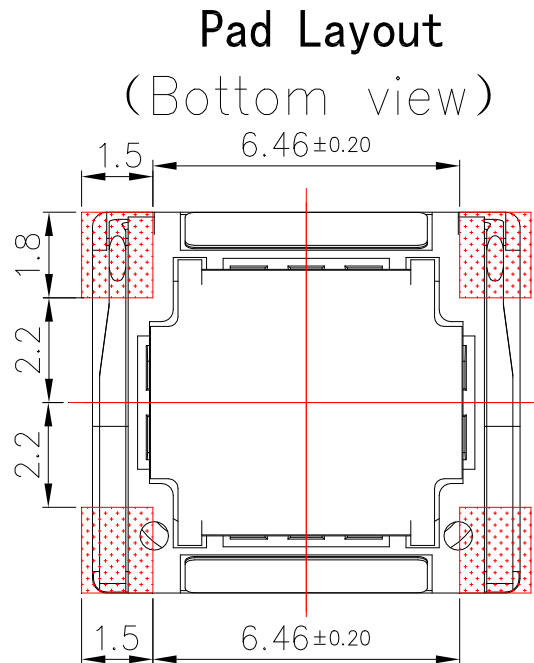
Notes:

1、 General unless otherwise noted ±0.2mm.

(Figure 6)

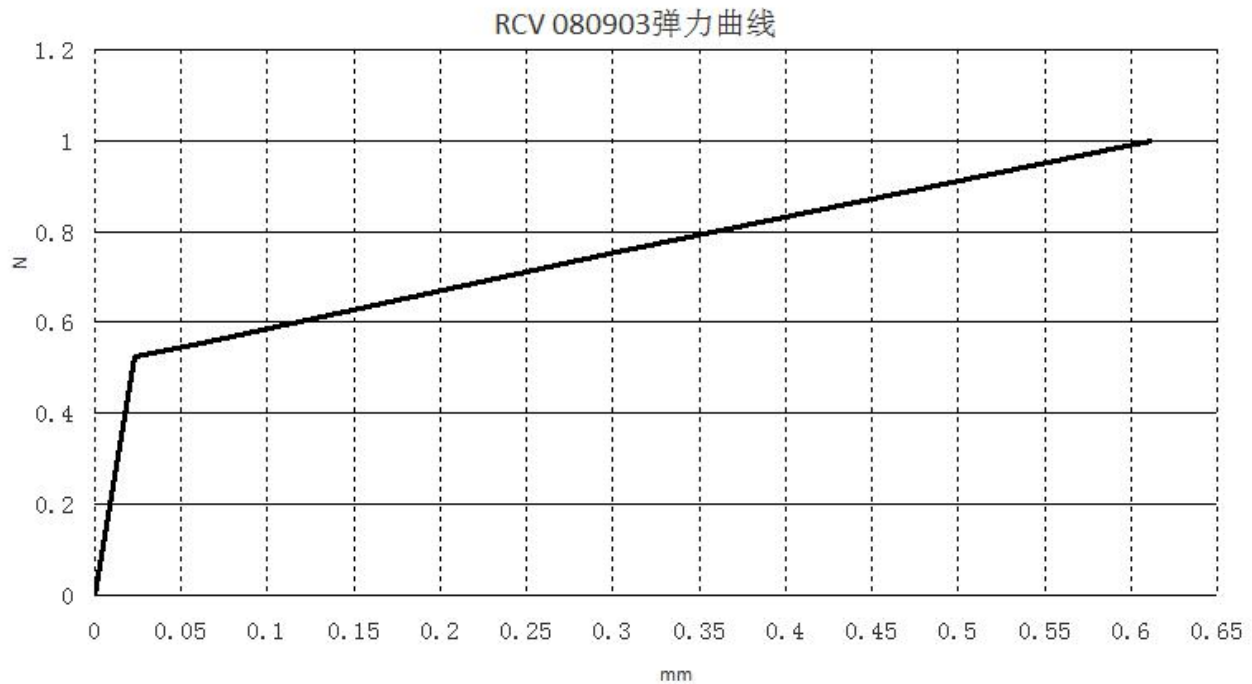
10	Gasket	0.1t	2	
9	Spring	SUS301 3/4H	2	Au≥0.3um
8	Cover	Cu	1	
7	Voice Coil	SDHT	1	
6	Dome Type	PMI	1	
5	Diaphragm	PEEK	1	
4	Pole Piece	SPCC	1	
3	Magnet	NdFeB	1	
2	Yoke	SPCE	1	
1	Frame	PPA	1	
No.	Part Name	Material	Q'TY	Remark

8.2 Pad Layout of Spring contact



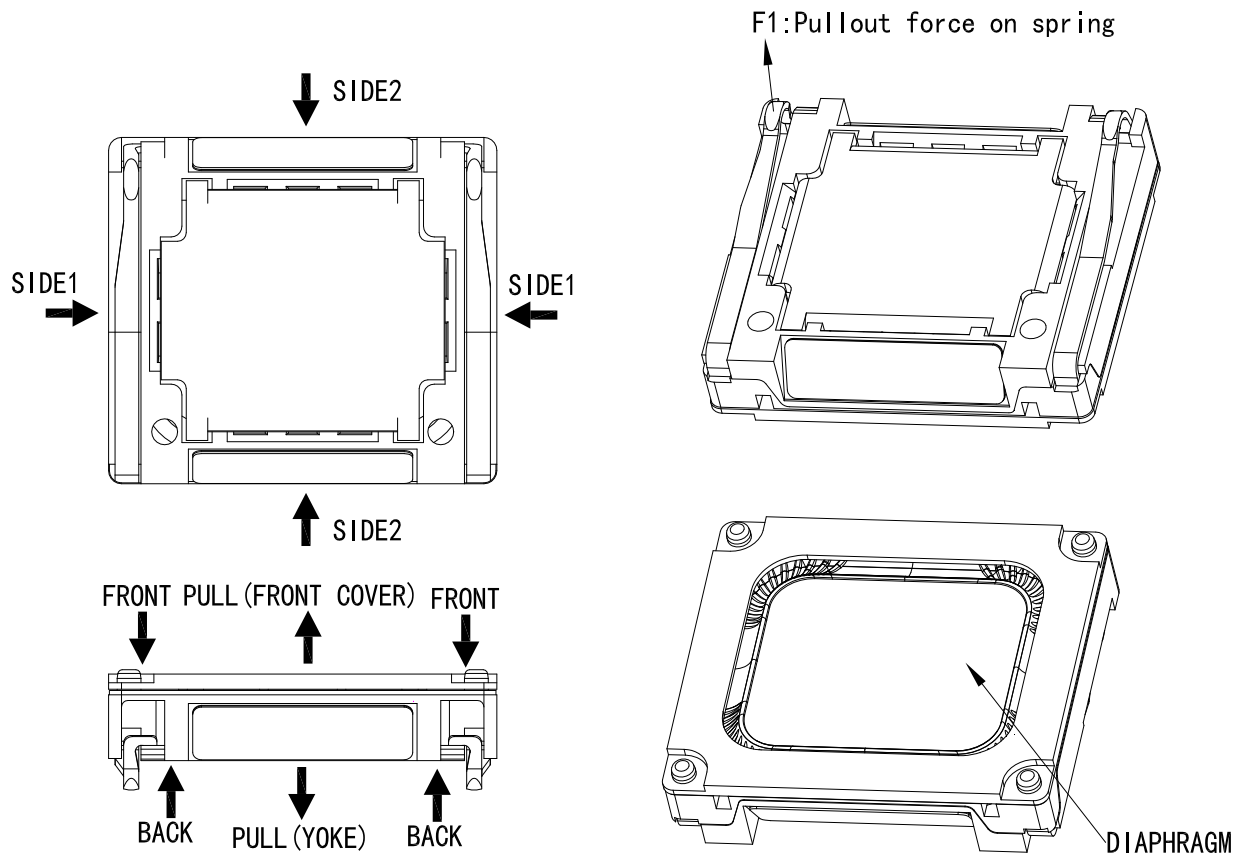
(Figure 7)

8.3 Force Diagram



(Figure 8)

8.4 Permitted Force to Receiver



(Figure 9)

Table 4: Max. Permitted compression forces

NO.	From	To	Max. Permanent Force(N)
1	Side 1	Side 1	10N
2	Side 2	Side 2	10N
3	Front	Back	5N
4	Front to Back Min. Permanent Force(N)		3.5N-7N
5	To Diaphragm		0N
6	Pull of Force(Cover/Yoke)		0N
7	F1		0N

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	TYPE NO.	XHR090803WW20P20-03-RH	Issue:A/8
9. Package 1、 100pcs of speaker in each tray 2、 40 trays in one carton 3、 Total:4000 pcs / 1 carton 4、 Gross Weight:3.6KGS 5、 Net Weight: 1.6KGS			