

SPECIFICATIONS

* Model Identifications

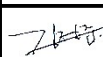
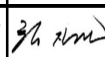
Model Code	Customer P/ N
5090S-A0406	

Signed for/on behalf of us. By: R&D manager Mr. ----- Date: . .	Signed for/on behalf of you. By: ----- Date : . .
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This Specifications will be valid after the date of acceptance by both 'Dreamus' and the customer. Without formal request for updating by one of the involved parties, this Specifications will be valid until the end of usage of the relevant products by the customer.

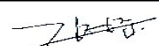
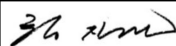


1. REVISION RECORD

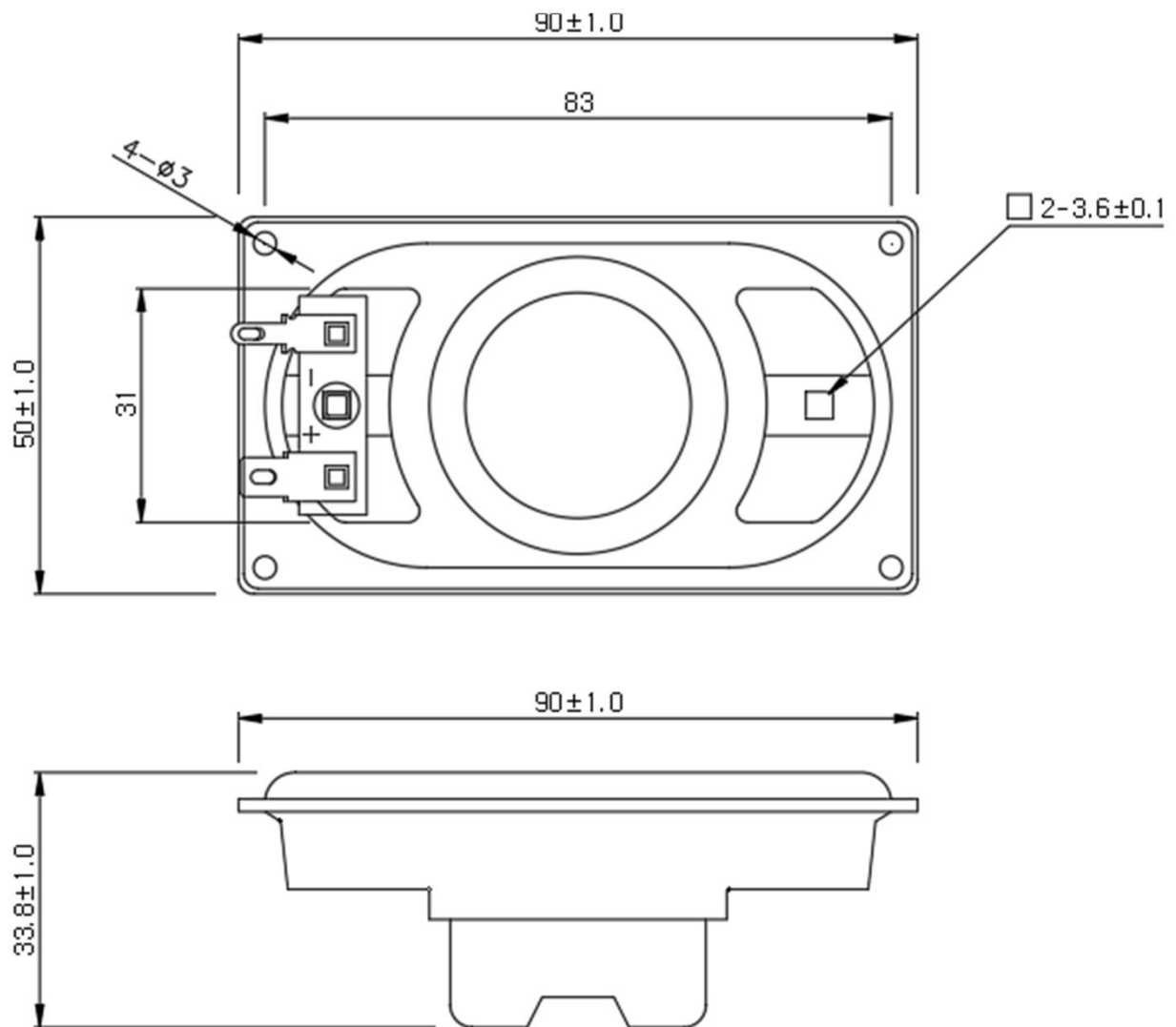
Rev. No	DATE	DESCRIPTION	By	Chk.	App.
0	23. NOV. 2020	R&D and ECO Release			
1					
2					
3					
4					
5					
6					
7					
8					
9					

2. RoHS ENVIRONMENTAL STANDARDS

CLASSIFICATIONS	SUBSTANCES	COMPLIANCE	
		YES	NO
RoHS	Lead and its Compounds	☒	☐
	Cadmium and its Compounds	☒	☐
	Mercury and its Compounds	☒	☐
	Hexavalent Chromium and its Compounds	☒	☐
	Polybrominated Biphenyls	☒	☐
	Polybrominated Diphenylethers	☒	☐

DESIGNED		CHECKED		APPROVED	
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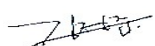
3. MECHANICAL CHARACTERISTICS



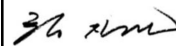
UNIT : mm
TOLERANCE : ± 1.0

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4. ELECTRICAL CHARACTERISTICS

PARAMETER	SPECIFICATION	UNIT
Impedance AT 500Hz / 1.0Vrms	8 ± 1.2	Ω
Power Rating (Nor / Max)	20 / 23	Watt
Polarity	When a positive DC current is applied to the marked (+), diaphragm shall move forward.	

5. ACOUSTIC CHARACTERISTICS

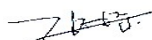
PARAMETER	SPECIFICATION	UNIT
Sound Pressure Level At 1.0W Input & 1.0m distance	81 ± 3 Avg (0.3, 0.4, 0.5, 0.6) kHz	dB
Total Harmonic Distortion	Less than 10% at 1KHz, 1W	%
Resonance Frequency (Fo) At 1.0 Vrms	120 ± 24	Hz
Frequency Range	Fo ~ 15	KHz
Buzz and Rattle etc.	Should not be audible at 20W (RMS. 12.64V) sine wave from Fo to 15 KHz.	

6. ENVIRONMENTAL CHARACTERISTICS

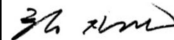
PARAMETER	SPECIFICATION	UNIT
Operating Temperature Range	-20 ~ 65	°C
Storage Temperature Range	-25 ~ 70	°C

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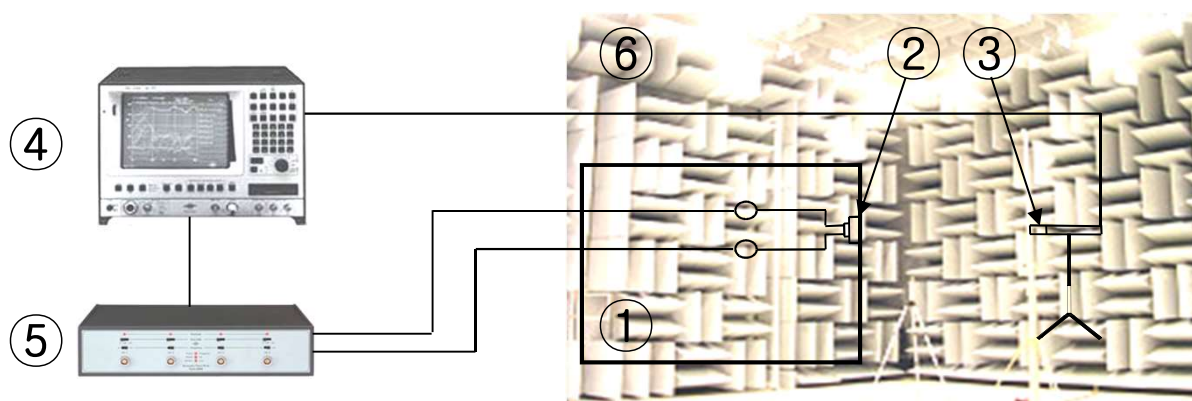

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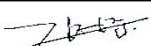
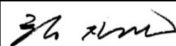
7. MEASUREMENT STANDARD

7-1 Measurement Environment

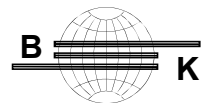
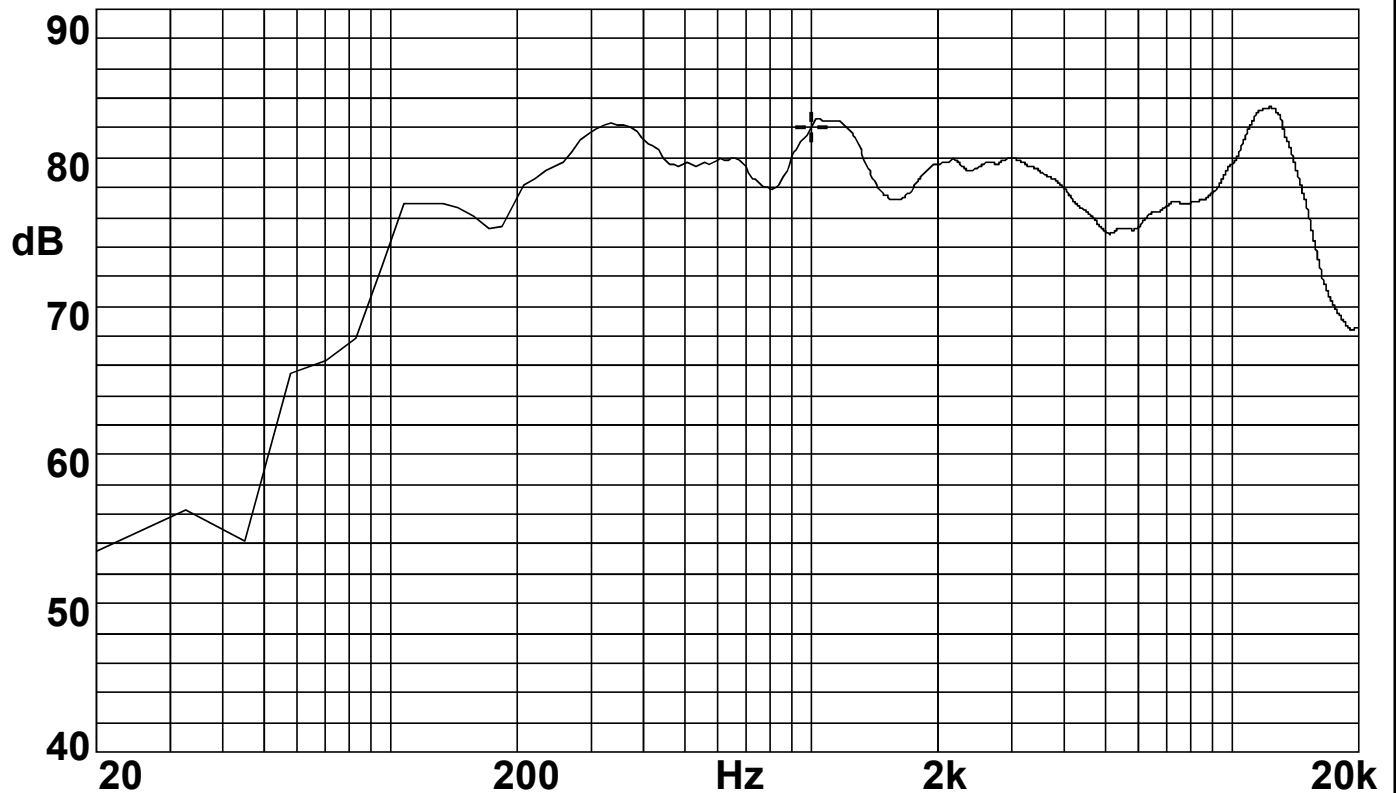


7-2 Measurement Environment

①	Baffle Box	JIS C 5532
②	Speaker Unit	5090S-A0406
③	Microphone	B&K 4133
④	Analyzer	B&K 2012A
⑤	Amplifier	B&K WQ1105
⑥	Anechoic room	2.5×2.5×3 (m)
⑦	Input Power	1.0 (W)
⑧	Testing Distance	1.0 (M)
⑨	Test Mode	TIME SELECTIVE RESPONSE (TSR)

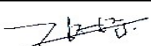
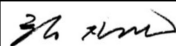
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8. TYPICAL FREQUENCY RESPONSE CURVE



NOTE:

- The frequency response curve is drawn with the "1/3OCT" smoothing Function of B&K 2012.

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9. RELIABLE TEST STANDARDS

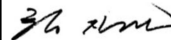
No	Test Item	Conditions
9-1	After Test	Sensitivity difference shall be within $\pm 3\text{dB}$ after test.
9-2	High Temperature Test	High temperature.....+ 70°C Duration.....96 hours
9-3	Low Temperature Test	Low temperature..... - 25°C Duration.....96 hours
9-4	Thermal Shock Test	Temperature - 25°C $\leftrightarrow$ + 70°C Duration.....2hours Cycle.....15 cycles
9-5	Humidity Test	Temperature.....+ 40°C Relative humidity.....90% Duration.....96 hours
9-6	Vibration Test	Vibration.....10 - 55Hz / min Amplitude.....1.5mm Duration..... 2 hour in each of 3axes
9-7	Drop Test	Height.....1.5 M Cycle.....1 cycles
9-8	Load Test	Subject samples to White Noise for 96 hours at 20W input power

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