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### 1. SPECIFICATIONS

Parameter	Unit	Conditions / Description	MIN	TYP	MAX
Input Power	W			5	6
Impedance	Ω	At 1.000Hz	3.4	4	4.6
Resonance Frequency	Hz		280	350	420
Frequency Response	Hz		200		20.000
Buzz & Rattle		Must be normal at sine wave 4.47V			
Polarity		Positive voltage to (+), Diaphragm moves forward			
Contact				TAB	
Packaging				TRAY	
Operating Temperature	°C		-40		+85
Storage Temperature	°C		-40		+85
Weight	g			27	

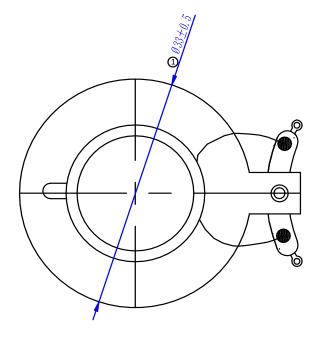
DESIGNED BY	Rabea Richter	DATE	2022.08.10	PART NO.	INDEX
RELEASED BY	Anouschka Esselun	DATE	2022.08.10		
CHANGED BY	Rabea Richter	DATE	2022.08.19	FXR 33041-02 A	А
DRAWING NO.	447834382			E/(11 330 12 02 / 1	, ,

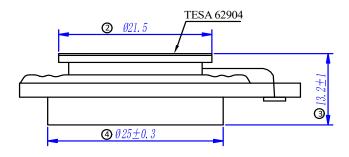


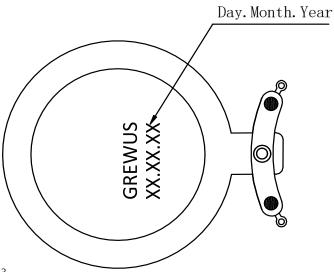
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### 2. DRAWING







Unit: mm Tolerance: ±0.3

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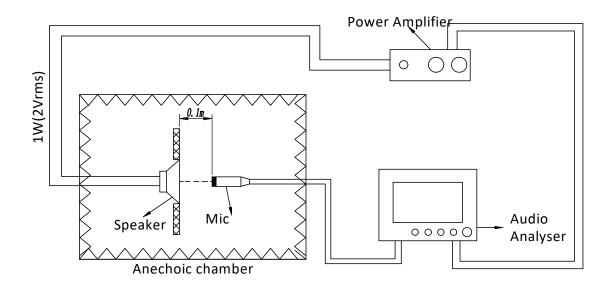


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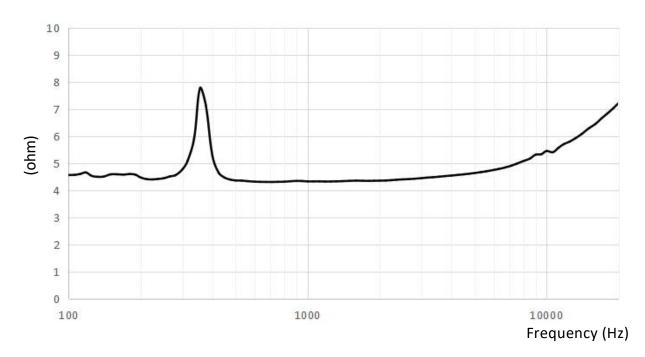
### 3. TEST METHOD

### 3.1 TEST SETUP



# 3.2 FO CURVE (only for reference)

A: Frequency Response Magn 0 dB re 20.00  $\mu$ Pa/V 1/12Oct



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#### 4. RELIABILITY TEST

4.1 Load Test

Power (Nom) 4.47V (white noise)

Duration 96 hours Temperature +40 ±2°C

Relative Humidity 90~95% RH

Duration 96 hours

4.2 High Temperature Test

Temperature  $+85 \pm 2$ °C

Duration 96 hours

4.5 Drop Test

4.4 Damp Heat

Height 75cm (free falling on concrete floor)

Times 10

4.3 Low Temperature Test

Temperature -40 ±2°C

Duration 96 hours

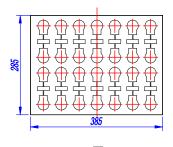
4.6 Vibration Test

Frequency 10~50Hz

Direction x, y, z, 24 hours each

**Notice:** After test leave at room temperature for 1 hour. SPL shall not deviate by ±3dB from pre-test measurement and meet above spec.

### 5. PACKING

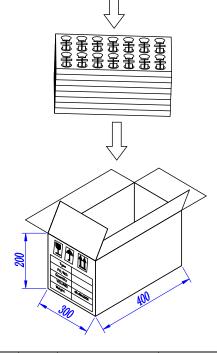


### **5.1 PACKING QUANTITY**

28pcs per tray 8 trays per unit

Total 224pcs per carton

Carton Size: 400x300x200mm



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#### 6. NOTICE

#### 6.1 The products must not be washed

#### 6.2 Storage Condition

The products should be stored in a room, where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to +40°C Humidity:15 to 85% R.H.

#### 6.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivery under the conditions of a sealed and an unopened package. Please use the products within six months after delivery. If you store the products for a longer time (more than six months), then use them carefully because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

#### 6.4 Notice on Product Storage

- 1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced in quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.
- 2) Please use the products immediately after the package is opened, because the characteristics may be reduced in quality, and/or be degraded in the solderability due to the storage under the poor condition.

#### 6.5 Rated and Max-input power

Rated input power

Rated input power is the maximum (limit) value which can be input to the component intentionally. If the actual input power to component keeps exceeding the Rated Input power, it will damage the component acoustic performances and reliability. In the worst case, the component will get broken and no sound.

Max-input power

Max-input power is the maximum (limit) value for unexpected input power which is caused in the customer's circuit like surge voltage. If the actual input power to the component keeps exceeding the maximum input power, it will break the component and cause no sound in a short time. Please note that the components will have a risk to get broken if the unexpected input power continues.

The value of input power is set based on the sinusoidal power in the normal speaker use. If the special signal is input to component, the values of Rated and Max-input power will be different. Please make a well-investigation at your laboratory in the case of the special signal input.

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## 7. HISTORY CHANGE RECORD

DEV	CHANGE ITEMS		DATE
REV	BEFORE CHANGE	AFTER CHANGE	DATE
A1	PCB above the magnet cap Part Weight: 51g	PCB below the magnet cap Part Weight: 27g Update dimensions and product picture	2022.08.19

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