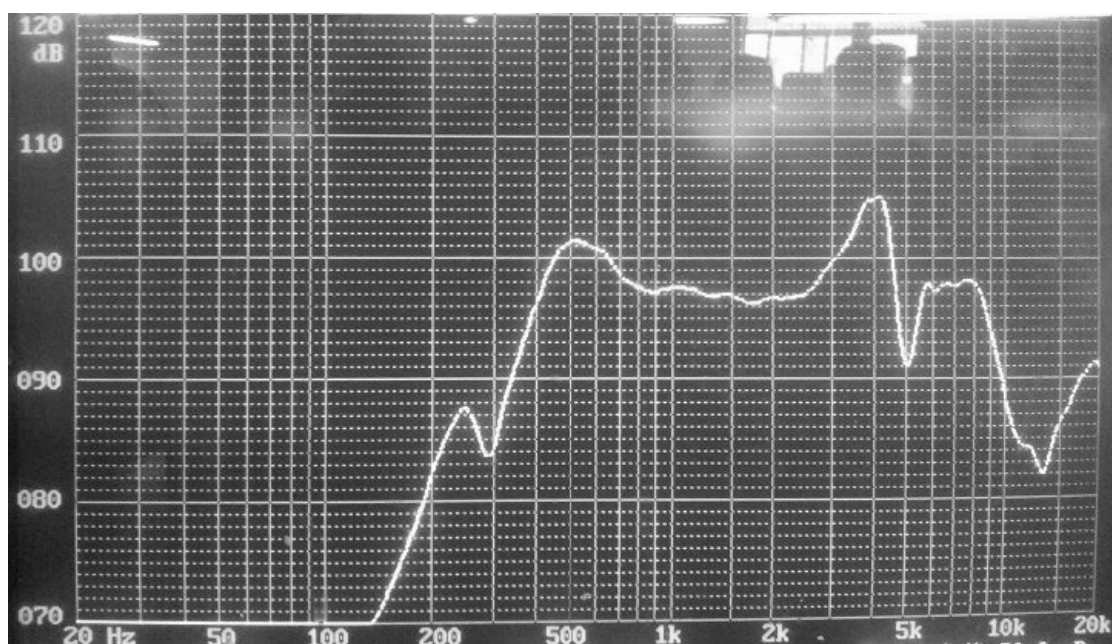




### FBF50T-50

Description	Φ 50×8 50Ω 0.5W
impedance	50±20% at 1 kHz
sensitivity	98±2dB
Frequency response (F0)	370Hz-450Hz
Test equipment	JH6160(R)
Voltage input	1.5V



### Environmental performance

Working humidity	-20°C0 +50°C
Working temperature	30% ~75%RH ( NO dew condensation)
Storage temperature	-20°C0+50°C
Storage humidity	20% ~80%(Water vapor pressure 6643pa Max
Storage	1year
defectives	10ppm Max

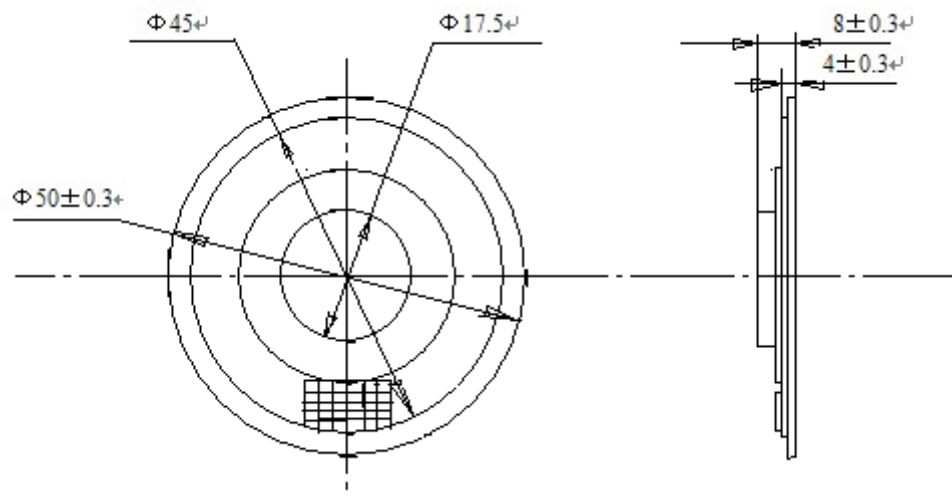
## Reliability

	Item	Condition	Requirement	equipment
Electrical	high temperature resistance	50°C±2°C 30h	no deformation	Oven
	low temperature resistance	-20°C 30h	no deformation	freezer
	Thermal Shock	-20 °C -50 °C for 30 minutes each, with temperature rise and fall below 10 minutes. 50 cycles	no deformation	Oven freezer
	Humidity resistance	Temperature 50 ± 2 °C Humidity: 80% 30h	no deformation	Humidification oven
Soldering	solderability	Electric soldering iron temperature: 300 ± 5 °C for 3 ± 0.5 seconds		electric iron
	Resistance to Soldering Heat	Place 2.5 seconds on the soldering iron wire at 300 ± 5 °C		Reflow
Mechanical	vibrate	Vibration frequency: 10-45HZ; amplitude: 1mm; acceleration: 10G; vibration speed change: 10-45-10HZ; X, Y, Z axis vibration time: 1 hour each	Still work normally	external
	Falling	Drop the wooden board from a height of 75 ± 5CM to a thickness of 2CM three times		self-made

\*The testing equipment for the above electrical performance is 200B, and testing can only be carried out after completing the test for 1 hour.

## Size

Name	Size (mm)
Outer diameter	$50 \pm 0.3$
Height	$8.0 \pm 0.3$



### Appearance test standard

Item		Grade	Sample standard	Test method	Test standard
Appearance	Tin-plated	A	G-II,AQL=0.25	Observe visually	No yellowing or spots.
	shell	B	G-II,AQL=0.25	Observe visually	No severe yellowing, no obvious scratches.
	Mark	B	G-II,AQL=0.01	Observe visually	The product identification requires clear handwriting, and the wording should match the contract review

Manual welding temperature

Manual welding temperature  $300 \pm 5$  °C, welding time  $2 \pm 0, 5$  seconds.  $\Delta f/f < 10\text{ppm}$ ,  $\Delta RS < 10\%$

Storage and usage conditions

1. Storage conditions

(1) Storage temperature:  $-20$  °C+ $50$  °C

(2) Storage humidity: below 71%

(3) Storage period: Use within 2 years after inclusion After more than 2 years, please confirm the weldability before use

Note: The storage environment should not contain acidic, alkaline, or other chemically corrosive gases, and direct sunlight is not allowed

2. Usage conditions: ambient temperature;  $-20$ °C+ $50$ °C

Relative humidity: not exceeding 75% at  $40$  °C

3. Mechanical durability or individual design service life:  $\geq 2$  years