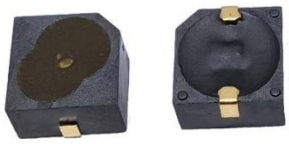
MAGNETIC BUZZER

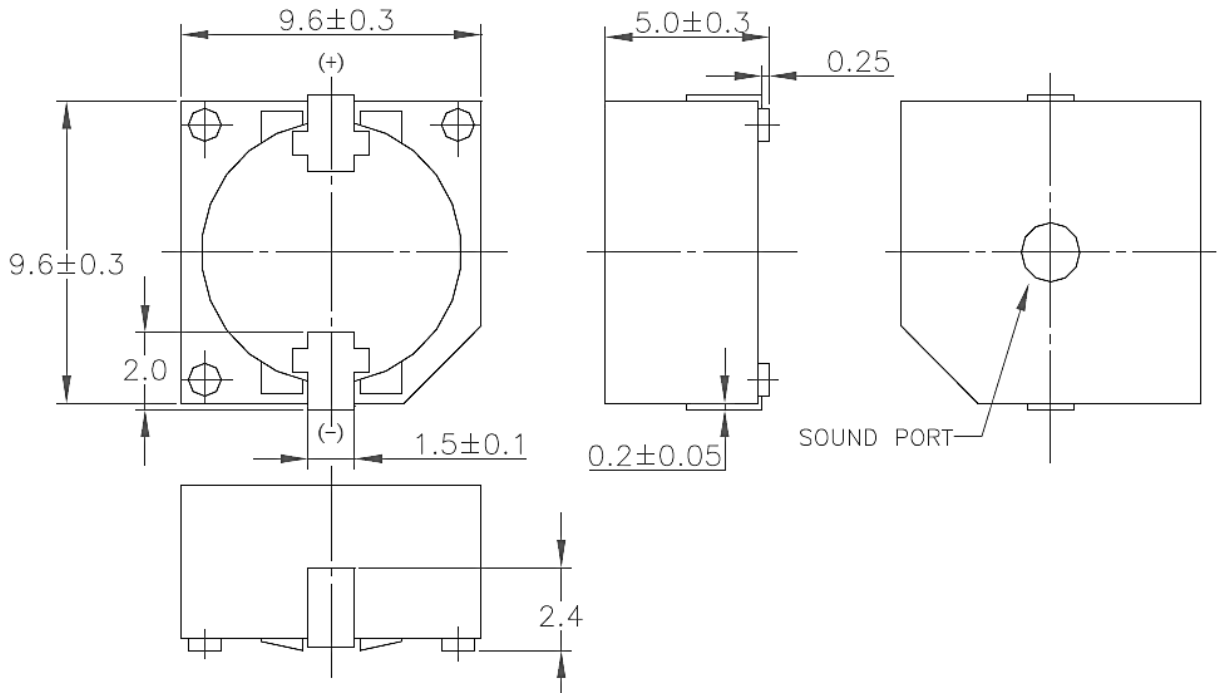
RBE-2.700-9696-EG-001



Electrical Specifications

PARAMETERS		VALUE	UNIT
Oscillation Frequency		2700 ±300	Hz
Operating Voltage, max		4.0 ~ 7.0	VDC
Consumption Current, max	@ 5.0 VDC	30	mA
Output SPL, min	@ 10 cm, 5.0 VDC	80	dB
Operating Temperature Range		-40 ~ +85	˚C
Storage Temperature Range		-40 ~ +85	˚C

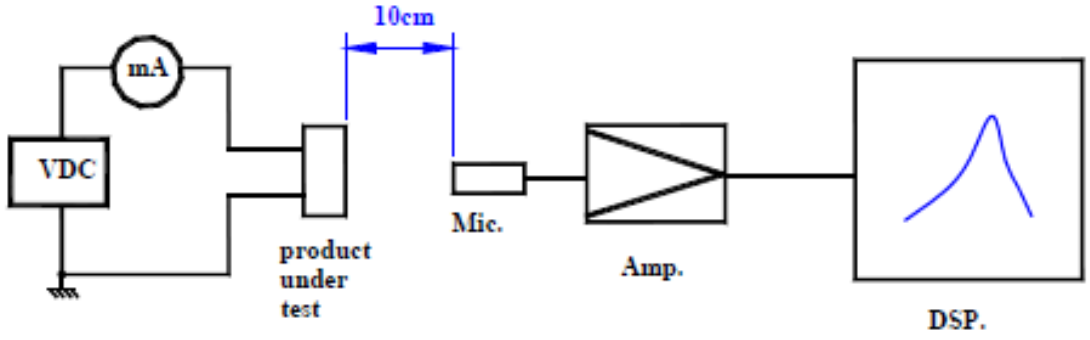
Dimension



Unit: mm

Part Name	Type of Material
Case	PPS
Diaphragm	FeNi50
Yoke	DT4C
Enamelled Wire	QAN/Y0.04/0.035
Plastic Magnet	

Measuring Method



Measuring Voltage: 5.0VDC

VDC: Power Supply, mA: Milliammeter Amp: Amplifier
Mic: Measuring Condenser Microphone DSP: Display Screen
Mic.+ Amp. Can be replaced by a SPL meter.

Measuring Condition
Temperature: 15—35℃ R.H. 45—75%

Judgement Condition
Temperature : 20±2℃ R.H. 45—75%

Reliability Test

ITEM	TEST CONDITION AND REQUIREMENT
High Temperature Test (Storage)	After being placed in a chamber with 85±2ºC for 4 hours and then being placed in natural condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Low Temperature Test (Storage)	After being Placed in a chamber with -40±2ºC for 4 hours and then being placed in natural condition for 2 hours. Allowable variation of SPL after test: ±10dB.
Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2ºC for 24 hours and then being placed in natural condition for 4 hours. Allowable variation of SPL after test: ±10dB.
Temperature Cycle Test	After being placed in a chamber at -40 ±2ºC for 30 minutes, products shall be placed at room temperature(+20ºC). After 15 minutes at this temperature, products shall be placed in a chamber at +85±2ºC. After 30 minutes at this temperature, products shall be return to room temperature (+20ºC) for 15 minutes. After 5 above cycles, products shall be measured after being placed in natural condition for 4 hours. Allowable variation of SPL after test: ±10dB.
Drop Test	Drop on a hard wood board of 5cm thick, any directions ,6 times, at the height of 80cm . Allowable variation of SPL after test: ±10dB.
Vibration Test	After being applied vibration of amplitude of 1.5mmwith 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: ±10dB.
Soldering Heat Resistance	Lead terminals are immersed in rosin for 2 seconds and then immersed in solder bath of +260±5ºC for 10±1 seconds .90% min. lead terminals shall be wet with solder. (Except the edge of terminals).
Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +230±5ºC for 3±0.5 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
Terminal Strength Pulling Test	The force of 9.8N is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

• APPROVAL

DRAWN BY	AR, June 13, 2025
APPROVED BY	CP, June 13, 2025
REVISION	A, Initial Release