Pieezo Buzzer

42×16 mm
slow pulse & wires

CC42PA16W-2800-2

Revision

Date	Version	Status	Changes	Approver
2019/4/22	V0.1	Draft	First release	AX

Specifications

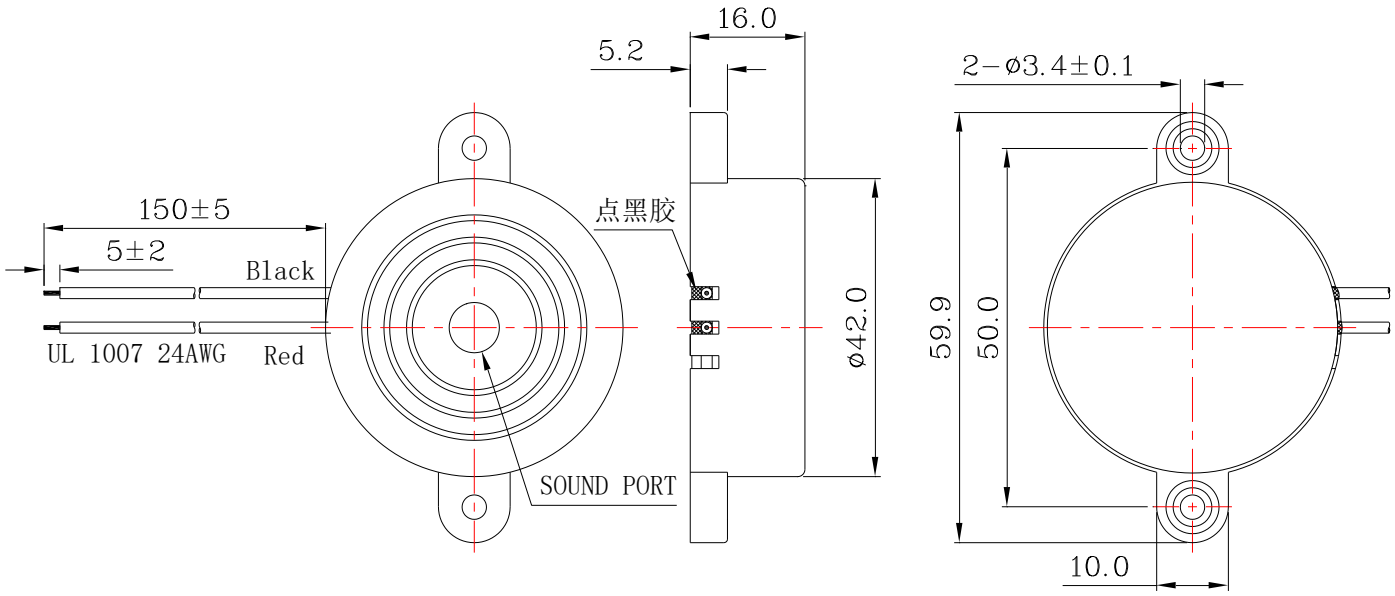
Parameter	Condition	Specification	Units
Oscillation Frequency		2.8±0.5	KHz
Operating Voltage		3~24	VDC
Rated Voltage		12	VDC
Current Consumption	at Rated Voltage	MAX.12	mA
Sound Pressure Level	at 10cm at Rated Voltage	MIN.100	dB
Tone Nature		SLOW pulse	
Operating Temperature		-20~ +60	℃
Storage Temperature		-30 ~ +70	℃
Dimension	See appearance drawing	Φ42* H16	mm
Weight (MAX)		13.4	gram
Housing Material		ABS(Black)	
Leading Pin	See appearance drawing	Wire type	
Environmental Protection Regulation		RoHS	

Notes: All specifications measured at 5~35°C, humidity at 45~85%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

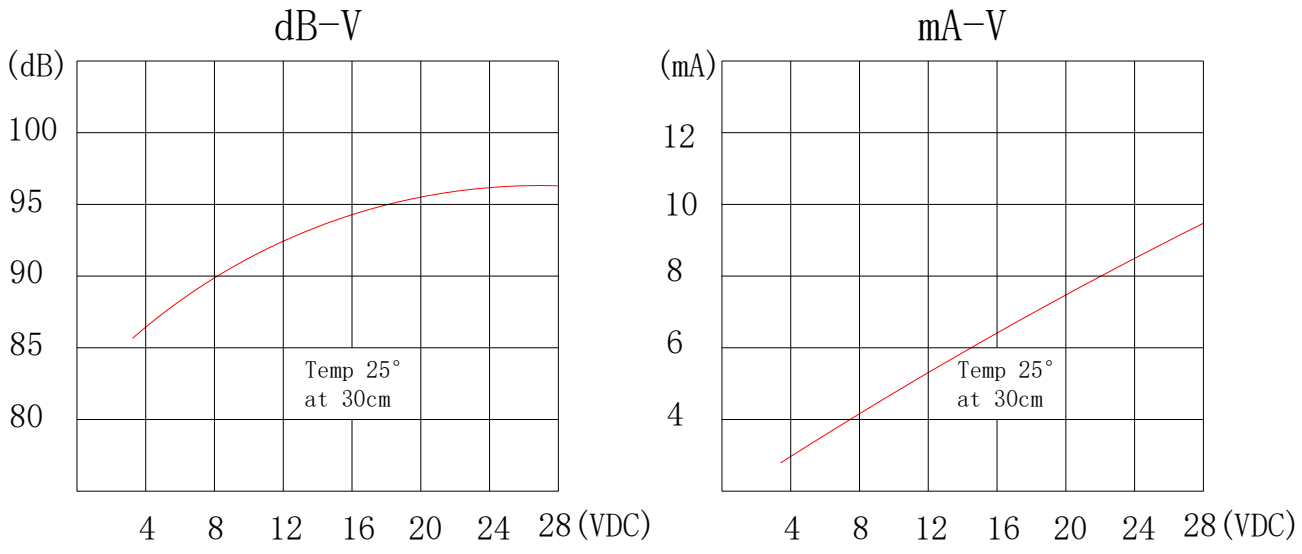
Tolerance: ±0.5mm



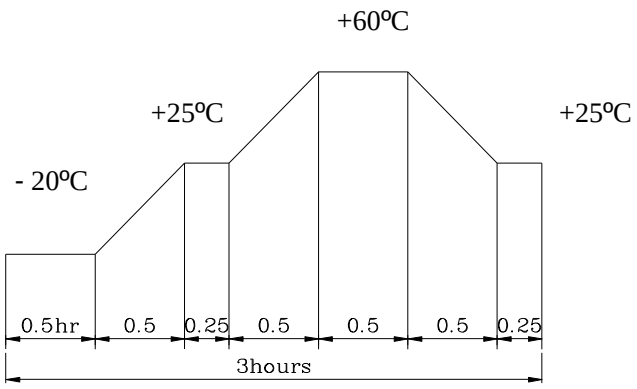
RESPONSE CURVES

Frequency Response Curve

Test condition: 0.1M,



RELIABLITY TEST

1	High Temperature Test (Storage)	After being placed in a chamber with 70 2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30 2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40 2ºC for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: 10dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of：  Allowable variation of SPL after test: 10dB.
5	Drop Test	Drop on a hard wood board of 4cm thick, any directions ,6 times, at the height of 75cm . Allowable variation of SPL after test: 10dB.
6	Vibration Test	After being applied vibration of amplitude of 1.5mm with 10 to 55 Hz band of vibration frequency to each of 3 perpendicular directions for 2 hours . Allowable variation of SPL after test: 10dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300 5ºC for 3 1 seconds . 90% min. lead terminals shall be wet with solder (Except the edge of terminals).
8	Terminal Strength Pulling Test	The force of 9.8N(1.0kg) is applied to each terminal in axial direction for 10 seconds. No visible damage and cutting off.

Standard Test Condition: a) Temperature : +5 ~ +35℃ b) Humidity : 45-85% c) Pressure : 860-1060mbar

一般测试条件: a) 温度 : +5 ~ +35℃ b) 湿度 : 45-85% c) 气压 : 860-1060mbar

Judgment Test Condition: a) Temperature : +25 ± 2℃ b) Humidity : 60-70% c) Pressure : 860-1060mbar

争议时测试条件 : a) 温度 : +25 ± 2℃ b) 湿度 : 60-70% c) 气压 : 860-1060mbar

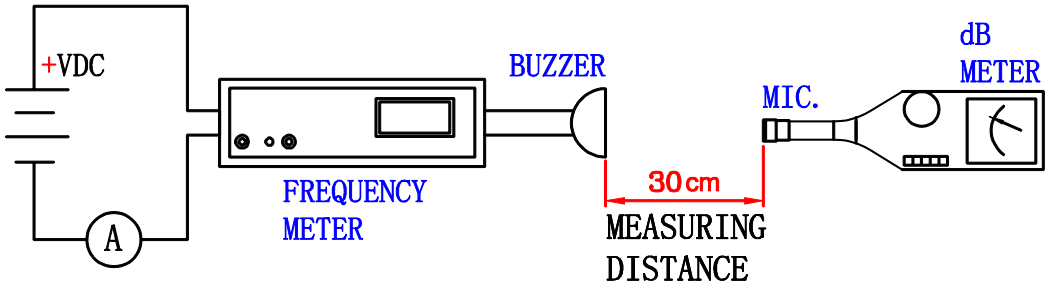
MEASURING METHOD

Standard Measurement conditions

Temperature:25±2℃ Humidity:45-65%

Acoustic Characteristics:

The oscillation frequency, current consumption and sound pressure are measured by the measuring instruments shown below



In the measuring test, buzzer is placed as follows:

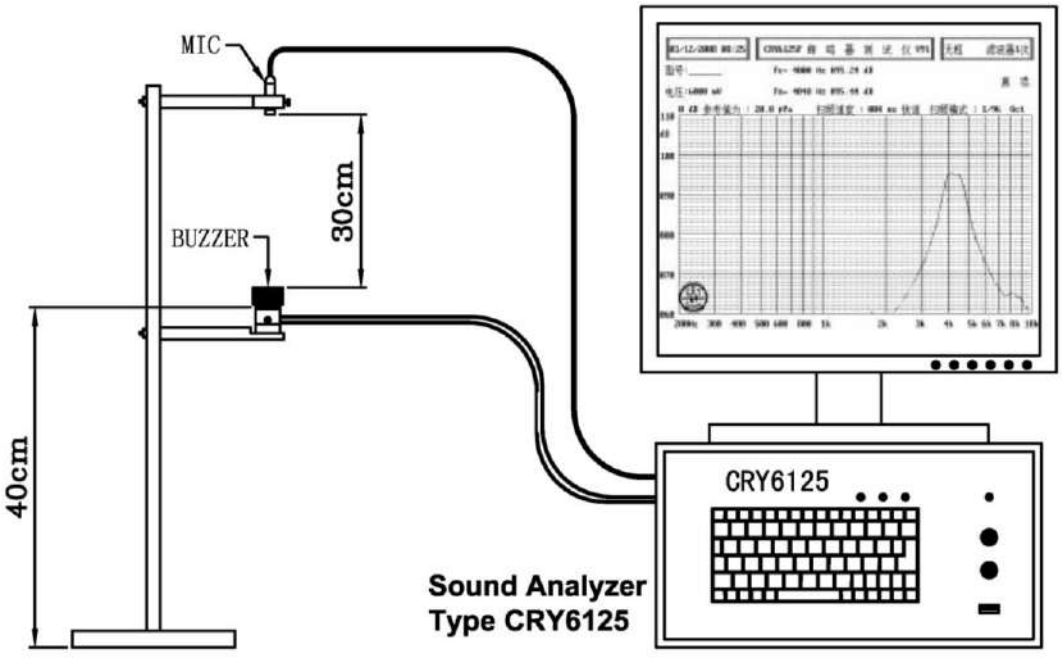
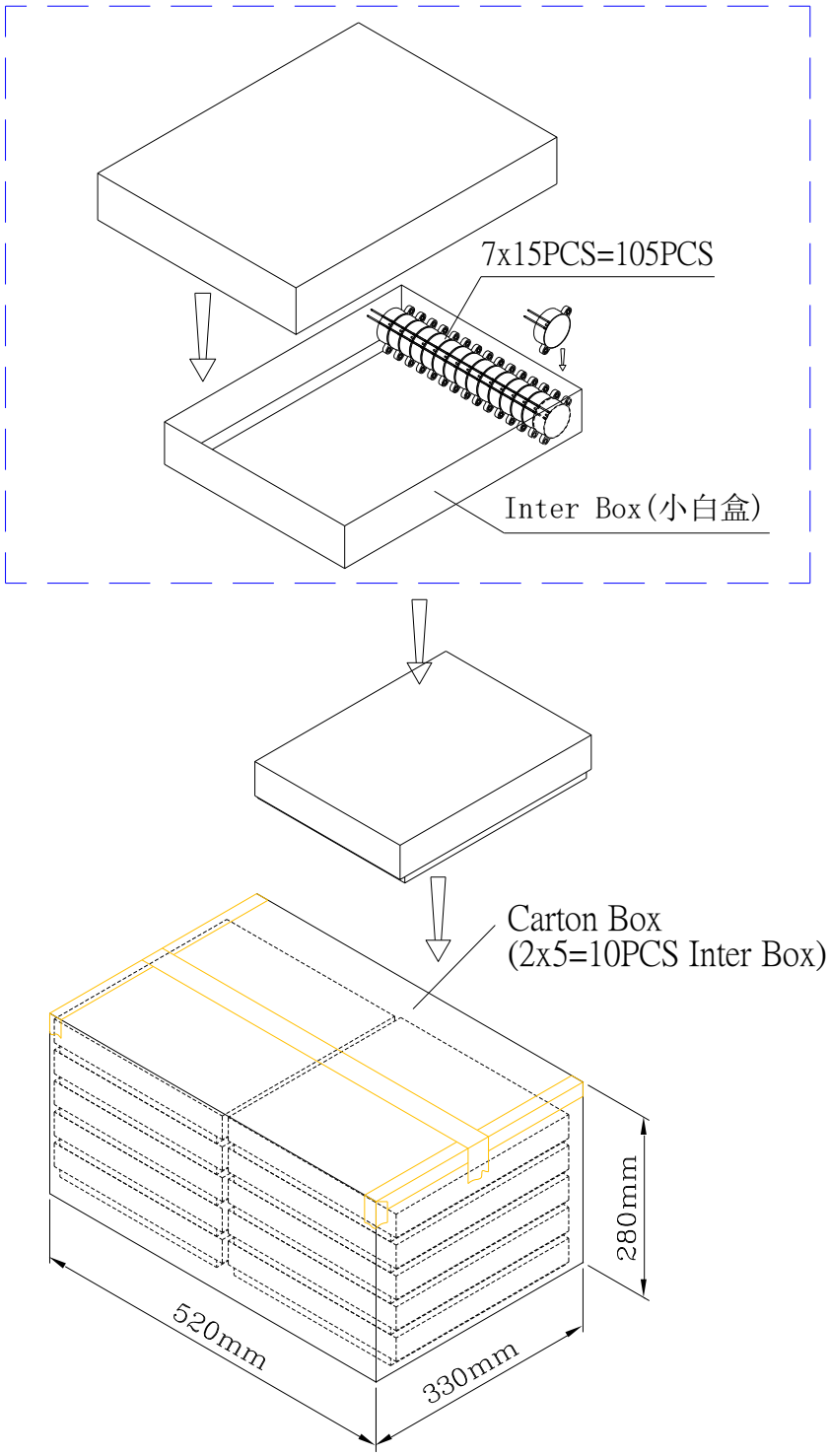


Fig. 1 Block Diagram for Measurement Method

PACKAGING



Inter Box	300mmx240mmx50mm	1x105PCS=105PCS
Carton Box	520mmx330mmx280mm	10x105PCS=1050PCS

