Passive Buzzer
with pin
12×8.5mm

CC12MP085P42-2048

Revision

Date	Version	Status	Changes	Approver
2019/12/2	V0.1	Draft	First release	AX

SPECIFICATIONS

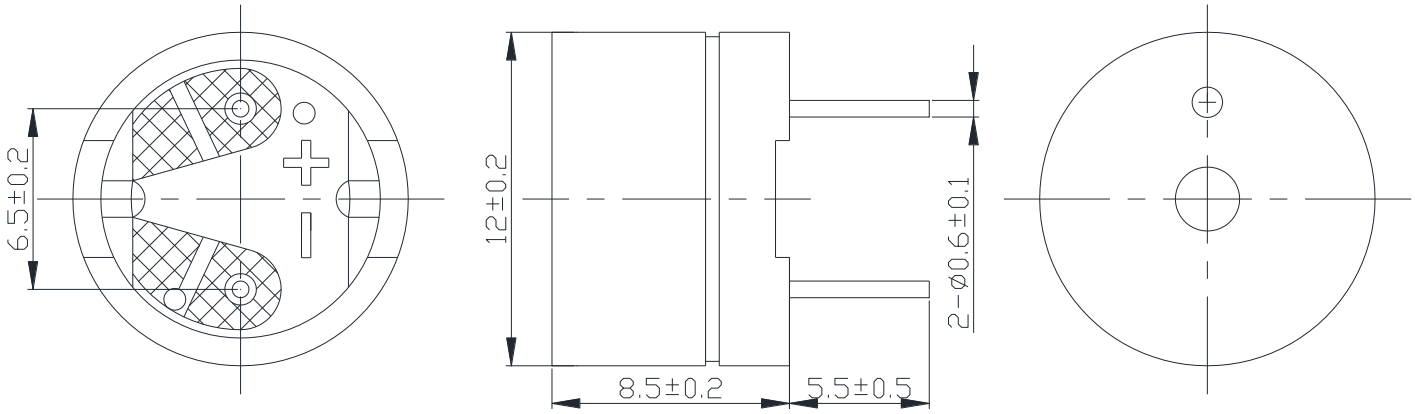
Parameter	Conditions/Description	Values	Units
Oscillation Frequency		2048	Hz
Operating Voltage		3~5	V_{p-p}
Rated Voltage		3.5	V_{p-p}
Current Consumption	at Rated Voltage	MAX.35	mA
Sound Pressure Level	at 10cm at Rated Voltage	MIN.85	dB
Coil Resistance		42±6	Ω
Tone Nature		Constant	
Operating Temperature		-20~ +70	℃
Storage Temperature		-20 ~ +70	℃
Dimension	See appearance drawing	Φ12*8.5H	mm
Housing Material		PPO(Black)	
Leading Pin	See appearance drawing	Tin Plated Brass(Sn)	
Environmental Protection Regulation		RoHS	

Notes: All specifications measured at 15~35°C, humidity at 25~75%, under 86~106 kPa pressure, unless otherwise noted.

MECHANICAL DRAWING

Units: mm

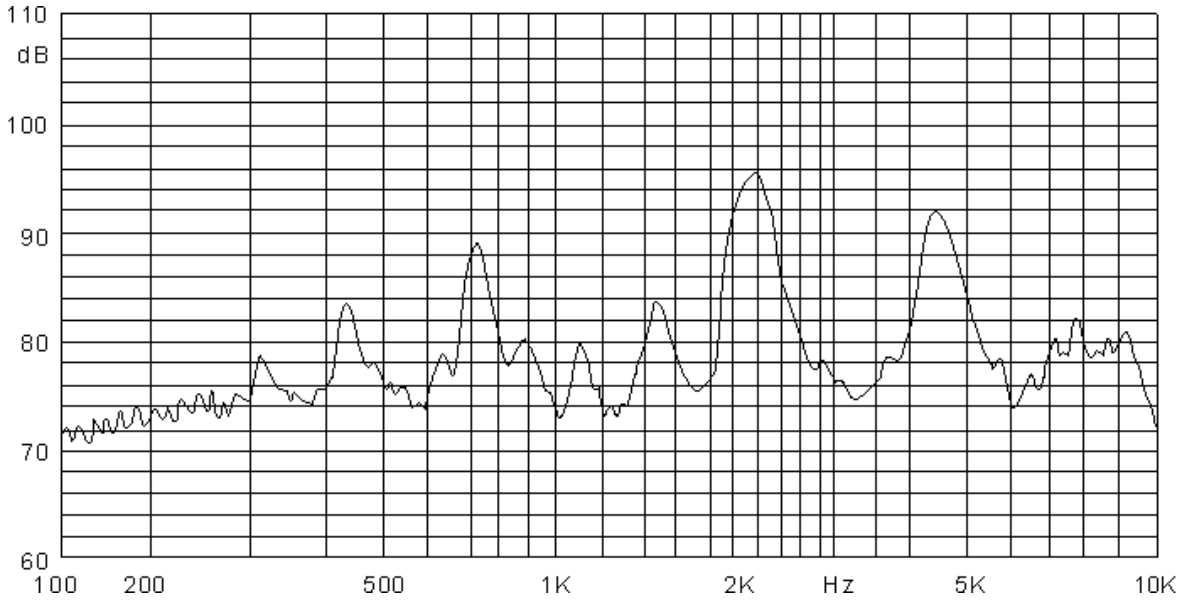
Tolerance: ±0.5mm



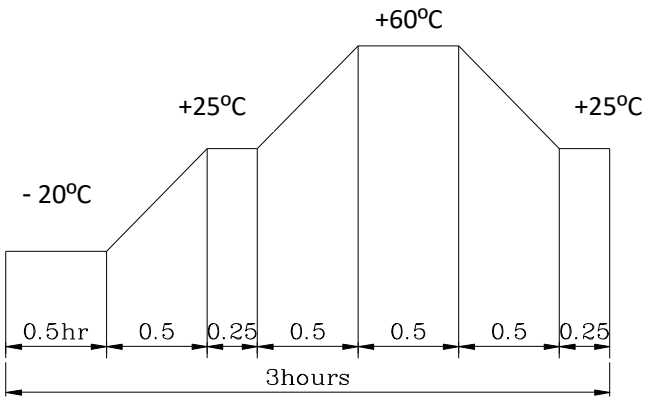
RESPONSE CURVES

Frequency Response Curve

Test condition: 0.1M,



RELIABLITY TEST

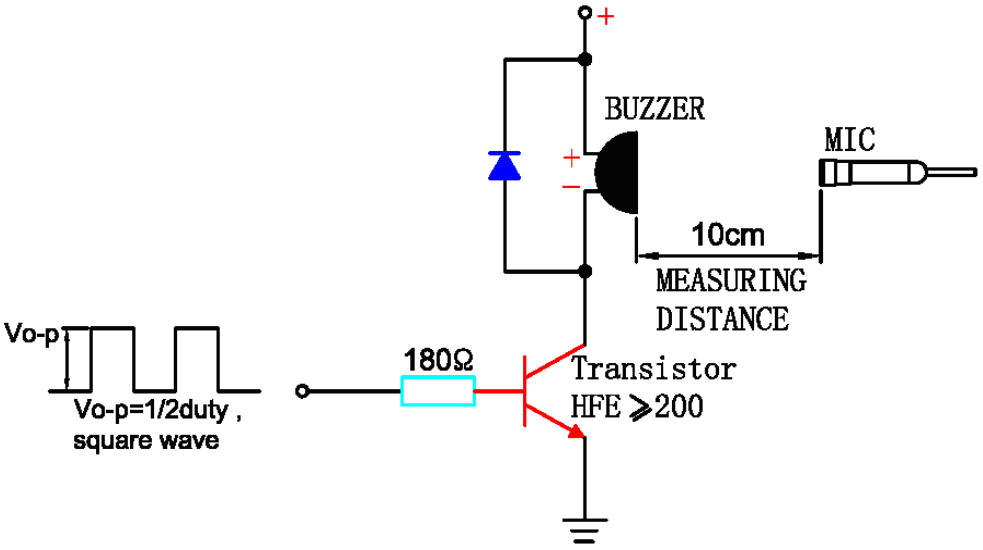
1	Reliability Test Performance	After any following test, parts should conform to original performance within ±3 dB tested with Rated Power, after 6 hours of recovery period.
2	High Temperature Test (Storage)	After being placed in a chamber with 70±2ºC for 96 hours and thenbeing placed in normal condition for 2 hours.Allowable variation of SPL after test: ± 10dB.
3	Low Temperature Test (Storage)	After being Placed in a chamber with -20±2ºC for 96 hours and thenbeing placed in normal condition for 2 hours.Allowable variation of SPL after test: ± 10dB.
4	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2ºC for 96hours and then being placed in normal condition for 2 hours.
5	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of:  Allowable variation of SPL after test: ±10dB.
6	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.
7	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.
8	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).
9	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.

MEASURING METHOD

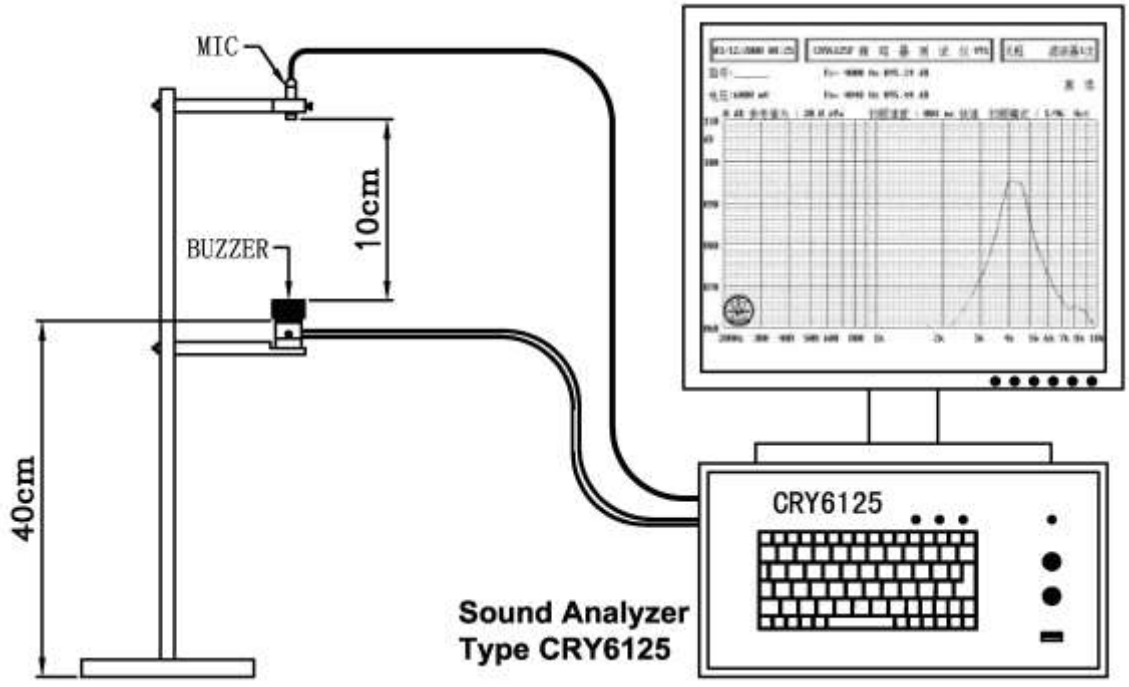
Standard Measurement conditions

Temperature:25±2℃ Humidity:45-65%

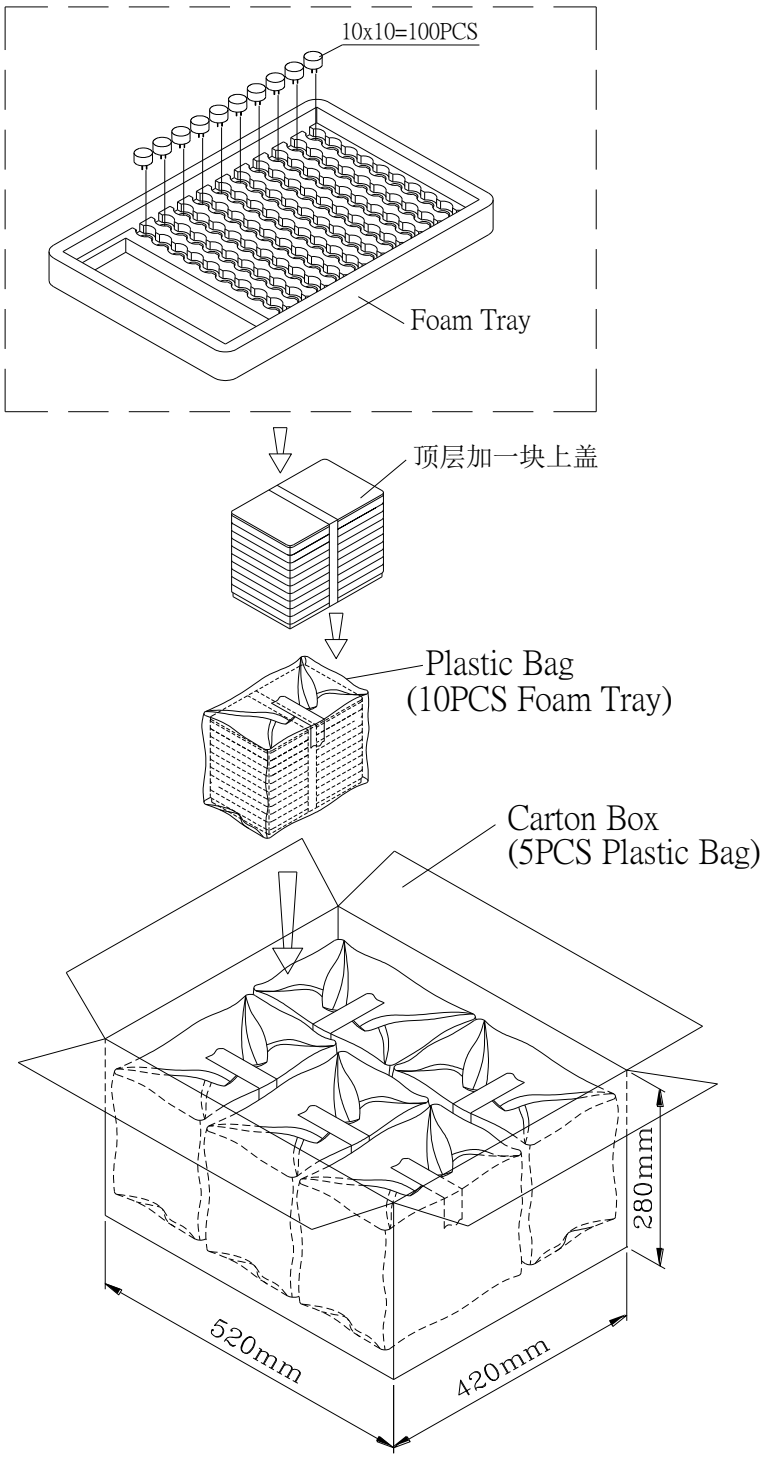
Recommended Setting



Recommended Test Circuit



PACKAGING



Foam Tray	240mmx160mmx30mm	1x100PCS=100PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	520mmx420mmx280mm	5x1000PCS=5,000PCS

