DIGISOUND®

F-DG111PC5V

Magnetic-THT-Buzzer without oscillator

Electrical and Acoustical Parameter

Rated Voltage (Vo-p)	*5*
Operating Voltage (Vo-p)	*3 ~ 8*
Max. Current Consumtion* (mA)	*50*
Coil Resistance (± 6Ω)	50
Sound Pressure Level* (dBA @ 10 cm)	*min. 88*
Resonance Frequency (Hz)	*2048*

Remark: *Applying rated voltage (Resonance frequency, Square wave [50% duty cycle])

Mechanical, Environmental Parameter

Contact / Wire	*Pin*
Contact / Wire Plating	*Tin plated brass*
Operating Temperature (°C)	*-20 ~ +70*
Storage Temperature (°C)	*-30 ~ +80*
Housing Material	*PPO*
Housing Colour	*black*
Component Weight (g)	*1.5*

Remark:

Approval

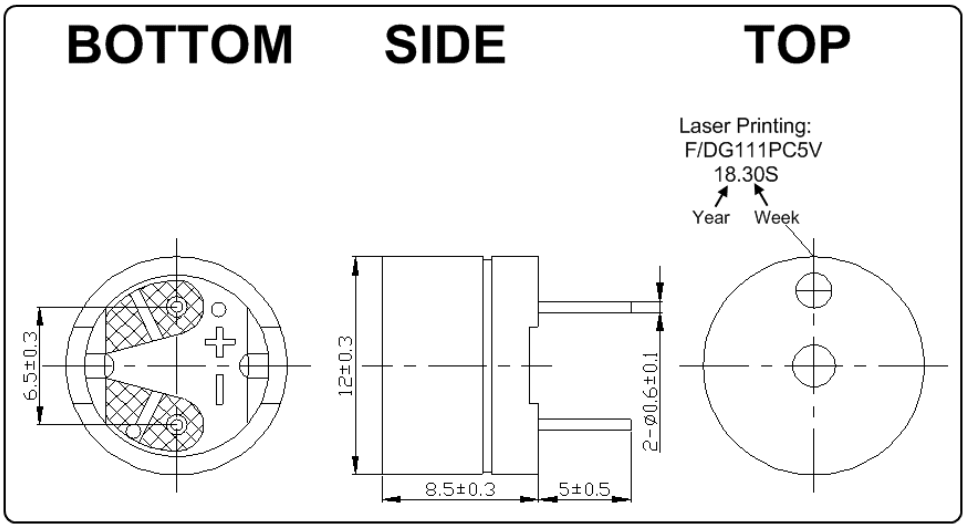
RoHs ☑

REACH ☑

Designed by	UB	14.02.2018		Index: 00	Current date
Released by	KH	14.02.2018	Drawing number **180214.2BS0**		14.02.2018
Changed by					

Drawing of Component and PCB Footprint

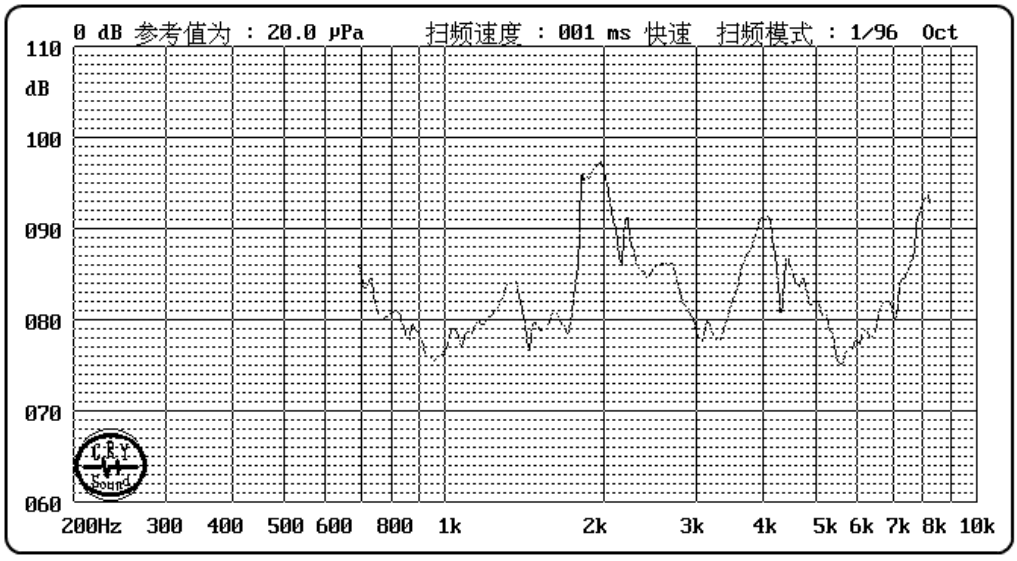
Unit: mm



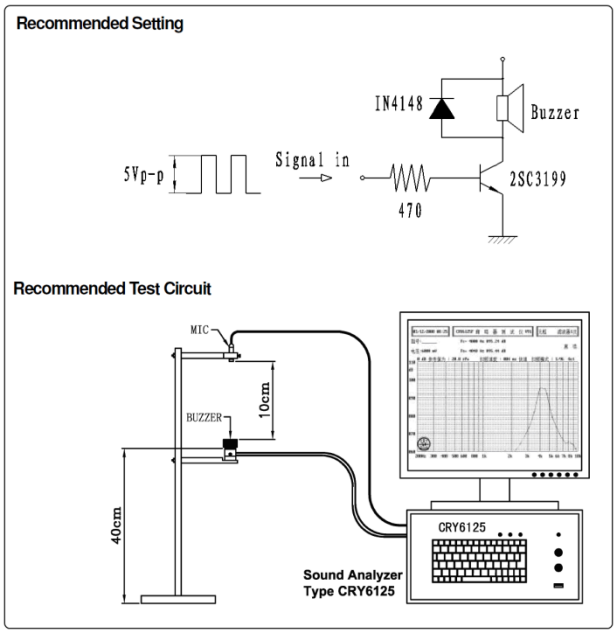
Dimensions without tolerance ±0,5 mm

Schematic Diagrams and Characteristics

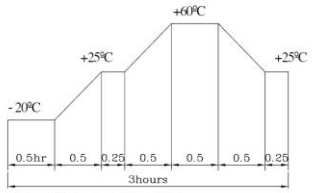
Typical Frequency Response



Test Method



Reliability Test

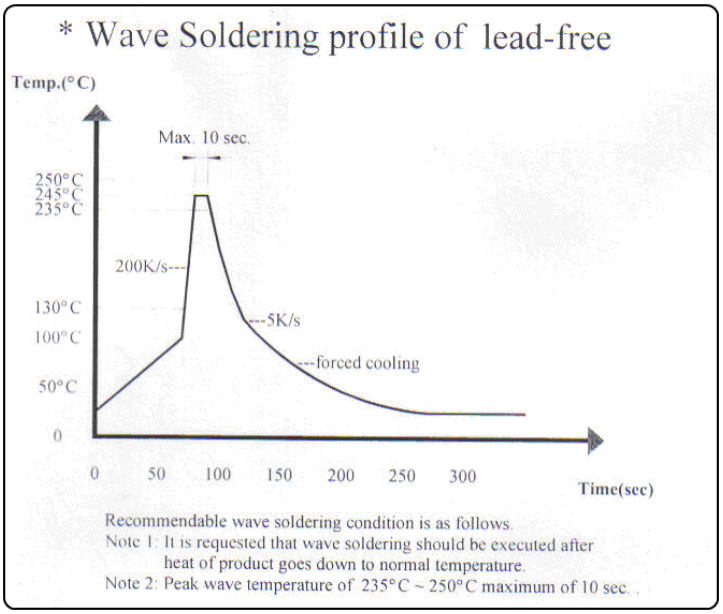
NO.	ITEM	TEST CONDITION AND REQUIREMENT
1	High Temperature Test (Storage)	After being placed in a chamber with 80±2℃ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±5dB.
2	Low Temperature Test (Storage)	After being Placed in a chamber with -30±2℃ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±5dB.
3	Humidity Test	After being Placed in a chamber with 90-95% R.H. at 40±2℃ for 96 hours and then being placed in normal condition for 2 hours. Allowable variation of SPL after test: ±5dB.
4	Temperature Cycle Test	The part shall be subjected to 5 cycles. One cycle shall be consist of：  Allowable variation of SPL after test: ±5dB.
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: ±5dB.
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: ±5dB.
7	Solderability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +300±5℃ 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.

TEST CONDITION.

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

Solder Profile

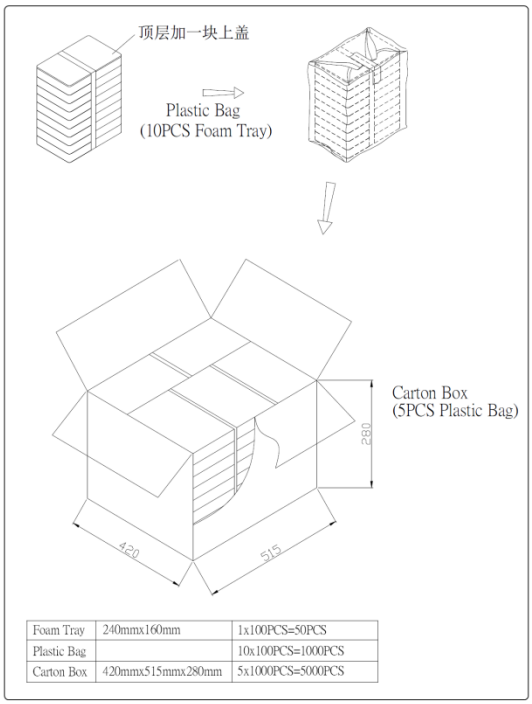
Wave soldering



Manual soldering

Manual soldering temperature 350°C within 5 sec.

Packaging Information



Foam Tray	240mmx160mm	1x100PCS=50PCS
Plastic Bag		10x100PCS=1000PCS
Carton Box	420mmx515mmx280mm	5x1000PCS=5000PCS

Revision Table

Index Nr.	Reason - Procedure Change description	Date	Name	Comments