規格承認書

PECIFICATION FOR APPROVAL

客 戶							
	:	立创					
項目	_	·					
ITEM	:	压电式无源蜂鸣器 (外部驱动)					
型號							
TYPE	:	GPC1405YF	3-5V4000)			
描述							
DESCRIPTION	: _	14 x 5.3 MM	4000Hz	$13000\pm30\%$	5V >=80DB	PPO 材质	P=7.6MM
客戶料號							
CUSTOMER NO). : _						
規格書號							
SPECIFICATION	N NO	. :					
版 本							
EDITION NO.	:	V1.0					
日期	_						
DATE		2019-12-	26				

客戶承認

CUSTOMER CONFIRM AND SIGN

檢查	審核	承認	
TESTED BY	CHECKED BY	APPROVED BY	

東莞市赢海電子有限公司

DONGUAN INGHAI ELECTRONICS CO.,LTD

製作	審查	確認
ISSUED BY	CHECKED BY	APPROVED BY
周明	李勇	

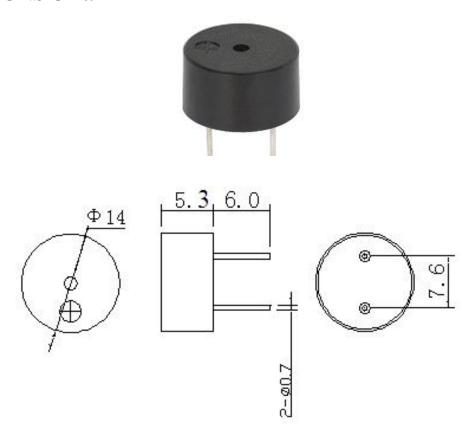
地址: 廣東省東莞市長安鎮上沙管理區北橫路8號

網址: HTTP://WWW.INGHAI.COM

DONGGUAN INGHAI ELECTRONICS CO.,LTD

Model NO: GPC1405YB-5V4000

DIMEMSIONS Unit:mm



A: SPECIFICATIONS

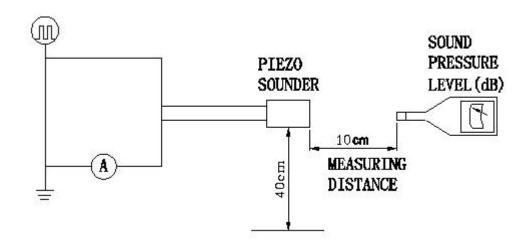
Model NO	GPC1405YB-5V	
Min Sound Pressure Level at 10cm	Min 80dB (Typ.) at 5Vp-p,4 khz	
Resonant Frequency	4000Hz	
Rated Current	Max. 3mA	
Capacitance at 1KHz	13000±30%	
Operating Voltage	Max 3-25Vp-p	
Operating Temperature	-20 °C~+70 °C	
Storage Temperature	-30 °C∼+80 °C	
Case material and color	PPO / Black	

Measuring condition

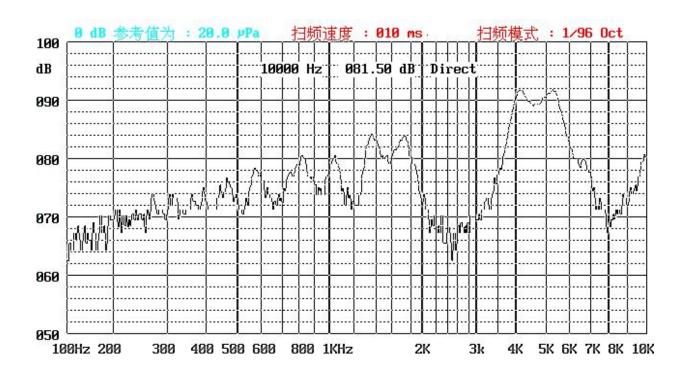
Part shall be measured under a condition (Temperature: $5 \sim 35$ °C, Humidity: $45\% \sim 85\%$ R.H., Atmospheric pressure: $860 \sim 1060$ hPa) unless the standard condition (Temperature: 25 ± 3 °C, Humidity: $60\pm10\%$ R.H. Atmospheric pressure: $860 \sim 1060$ hPa) is regulated to measure.

B: Acoustic Characteristics:

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



C: Typical Frequency Response Curve



D: Reliability Test

After any following tests the part shall meet specifications without any degradation in appearance and performance except SPL. SPL shall not deviate more than -10 dB from the initial value

1. Ordinary Temperature Life Test

The part shall be subjected to 96 hours at $25\pm10^{\circ}$ C. Input rated voltage Resonant frequency, 1/2 duty Square wave.

2. High Temperature Test

The part shall be capable of with standing a storage temperature of +80 $^{\circ}$ C for 96 hours.

3. Low Temperature Test

The part shall be capable of with standing a storage temperature of -30℃ for 96 hours.

4. Humidity Test

Temperature:+40 $^{\circ}$ C \pm 3 $^{\circ}$ C Relative Humidity:90% \sim 95% Duration: 48 hours and expose to room temperature for 6 hours

5. Temperature Shock Test

Temperature:70 $^{\circ}$ C /1hour \rightarrow 25 $^{\circ}$ C/3hours \rightarrow -30 $^{\circ}$ C/1hour \rightarrow 25 $^{\circ}$ C/3hours (1cycle)

Total cycle: 10 cycles

6. Drop Test

Standard Packaging From 120mm(Drop on hard wood or board of 5cm thick, three sides, six plain.)

7. Vibration Test

Vibration: 1000cycles /min. Amplitude: 1.5mm, Duration: 1 hour in each 3 axes

Note:

As this product is not protected from foreign material entering, please make sure that any foreign materials (e.g. magnetic powder, washing solvent, flux, corrosive gas) do not enter this product in your production processes. The functional degradation (e.g. SPL down) may occur if foreign material enter it.