

AL GOODWELL IND. LTD.

ROOM805, EASTERN HARBOUR CENTRE,

28 HOI CHAK STREET, QUARRY BAY, HONG KONG.

TEL: 28569088 FAX: 28569271/28569650

E-mail: sales@algoodwell.com

(產品型號)

Model No. : AL12085MT-P15R

(頁 數)

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1. Scope (使用範圍) :

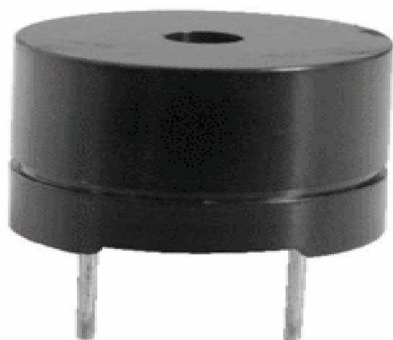
This specification is only used for Magnetic Transducer with **RoHS Compliance**.

(此規格書只適用於電池或訊響器 - **環保材料**。)

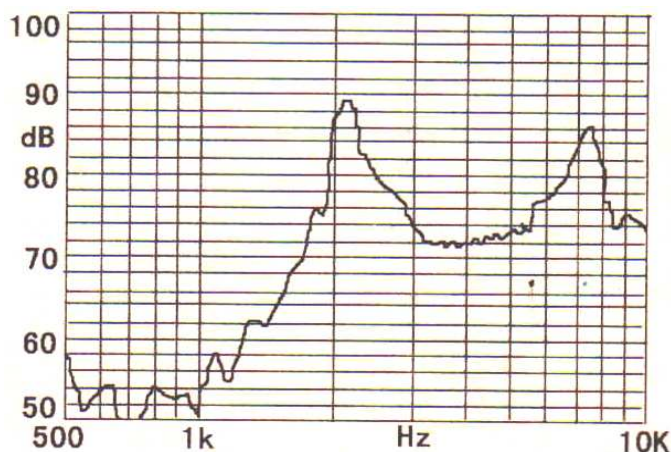
2. Electrical Characteristic (電性規格) :

No. 編號	Item (項目)	Specification (規格)
1.	Resonant Frequency (諧振頻率)	2048 \pm 500Hz
2.	Current Consumption (工作電流)	Max. 30 mA
3.	Coil Resistance (線圈阻抗)	16 \pm 2 Ω
4.	Rated Voltage (額定電壓)	1.5 VDC
5.	Operating Voltage (工作電壓)	1.0 ~ 2.0 VDC
6.	Output S.P.L. (輸出聲壓)	Min. 85dB at 10cm
7.	operating Temperature (工作溫度)	-20°C ~ +85°C
8.	Storge Temperature (儲存溫度)	-30°C ~ +80°C
9.	Housing Material (外殼材料)	PPO

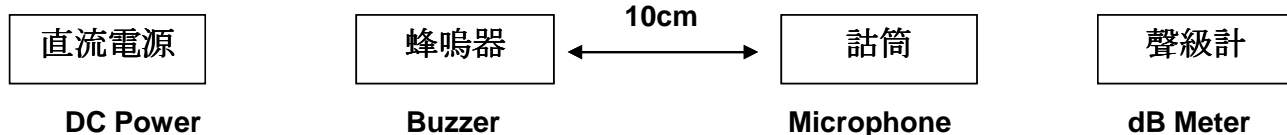
3.1 Appearance (產品外觀)



3.2 Frequency Response (曲線頻率)



4. Connection Diagram of Testing Apparatus (產品測試儀連接) :



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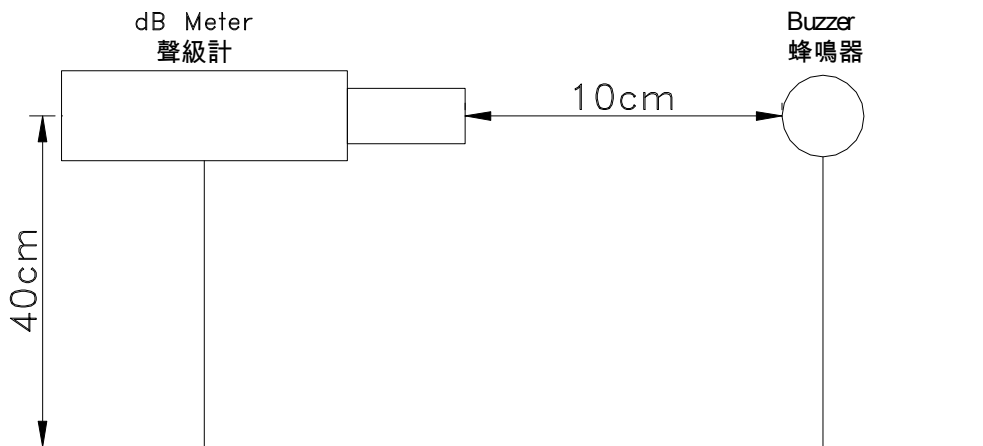
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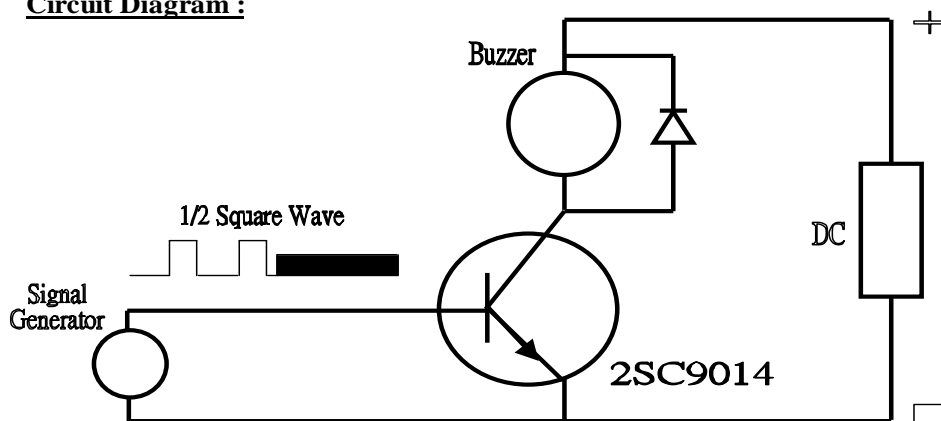
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5. Testing Method (產品測試方式) :



6. Circuit Diagram (驅動線路) :

Circuit Diagram :



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7. Reliability Test (可靠性試驗) :

Item (試驗項目)	Method of Test (測試方式)	Standard (標準)
高溫測試 Dry Heat Test	+85°C ± 2°C , 96h , 恢復 2 小時後測量 After being placed in chamber with +85°C ± 2°C for a 96 hours and then being placed in antural condition for 2 hours , sounder shall be measured.	試驗後所有指標都滿足 All specification must be satisfied after the test.
低溫測試 Cold Test	-20°C ± 2°C , 96h , 恢復 2 小時後測量 After being placed in chamber with -20°C ± 2°C for a 96 hours and then being placed in antural condition for 2 hours , sounder shall be measured.	試驗後所有指標都滿足 All specification must be satisfied after the test.
恆定濕熱試驗 Humidity test	將產品置於 +40°C ± 2°C, 相對濕度保持在 90%-95%中的環境中放置 96h, 恢復 2 小時後測量。 (見圖 Fig.1) After Being placed in a chamber with, 90%-95%R.H. at +40°C ± 2°C for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured. (Attached Fig.1)	試驗後所有指標都滿足 All specification must be satisfied after the test.
溫度變化試驗 Temperature Cycle Test	產品在 -20°C的試驗箱和溫度為 +85°C的試驗箱各放置 30 分鐘, 將一次溫度循環。產品承受 5 次溫度循環後, 放置 2h 後進行測量 (見圖 Fig. 2) After being placed in a chamber at -20°C ± 2°C for 30 minutes , sounder shall be placed at room temperature (+ 20°C). After 15 minutes at this temperature, sounder shall be placed in a chamber at +85°C ± 2°C. After 30 minutes at this temperature, sounder shall be returned to room temperature (+20°C) for 15 minutes. After 5 above cycles. Sounder shall be measured after being placed in natural condition for 2 hours. (Attached Fig.2)	試驗後所有指標都滿足 All specification must be satisfied after the test.
振動試驗 Vibration Test	頻率 10-55-10(Hz), 單振幅: 1.5 (mm) 掃頻時間 1 min. 振動時間 30min (見圖 Fig.3) Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency for 30 minutes. Sweep time is 1 minutes. (Attached Fig.3)	試驗後所有指標都滿足 All specification must be satisfied after the test.
插針的抗拉力 強度試驗 Terminal Strenght Pulling Test	播針承受 5 牛頓拉立, 負荷時間 5s, 然後進行檢查, 不出現焊點脫落斷裂現象。 The force 5 seconds of 5N is applied to each terminal. No visible damage and cutting off.	試驗後所有指標都滿足 All specification must be satisfied after the test.
可焊性試驗 Solder Ability Test	焊錫溫度 235°C ± 5°C, 浸潤時間為 3 ± 0.5s, 試驗後採用目測的方法檢查浸潤, 表面焊錫的浸潤情況。 Lead terminals are immersed in rosin for 5 seconds and then immersed in solder bath of +235 ± 5°C for 3 ± 0.5 seconds.	試驗後所有指標都滿足 All specification must be satisfied after the test.

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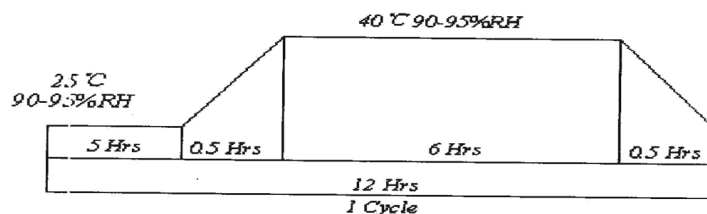
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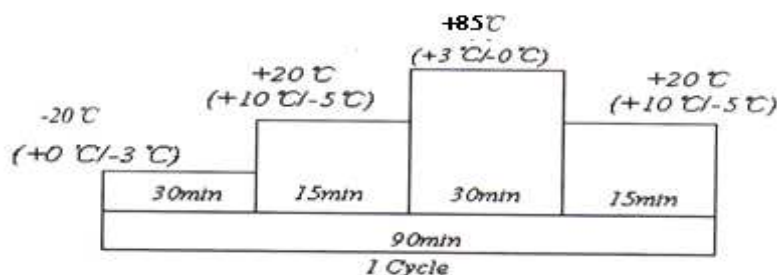
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Fig. 1



將產品置於 $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 相對溫度保持在 90%~95% 中的環保中夜置 96h, 恢復 2h 後測量 (見圖 Fig.1)
After Being placed in a chamber with, 90%-95%R.H. at $+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 96 hours and then being placed in natural condition for 2 hours, sounder shall be measured. (Attached Fig.1)

Fig. 2

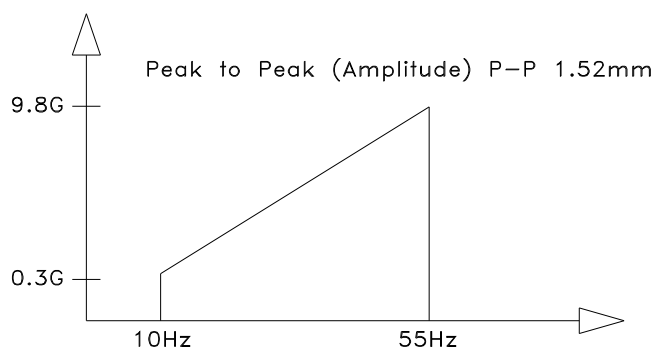


產品在 -20°C 的試驗箱和溫度為 $+85^{\circ}\text{C}$ 的試驗箱各放置 30 分鐘, 將一次溫度循環。

產品承受 5 次溫度循環後, 放置 2h 後進行測量 (見圖 Fig. 2)

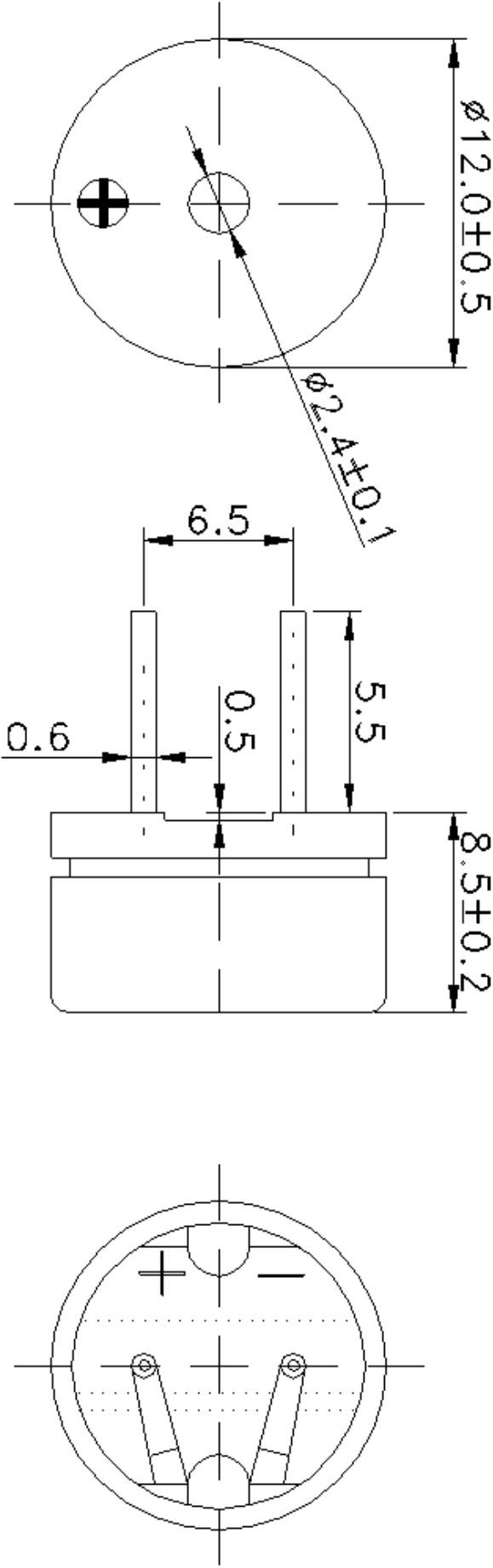
After being placed in a chamber at $-20^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for 30 minutes, sounder shall be placed at room temperature ($+20^{\circ}\text{C}$). After 15 minutes at this temperature, sounder shall be placed in a chamber at $+85^{\circ}\text{C} \pm 2^{\circ}\text{C}$. After 30 minutes at this temperature, sounder shall be returned to room temperature ($+20^{\circ}\text{C}$) for 15 minutes. After 5 above cycles. Sounder shall be measured after being placed in natural condition for 2 hours. (Attached Fig.2)

Fig. 3



頻率 10-55-10(Hz), 單振幅: 1.5 (mm) 掃頻時間 1 min. 振動時間 30min (見圖 Fig.3)

Sounder shall be measured after being applied vibration of amplitude of 1.5mm with 10-55Hz band of vibration frequency for 30 minutes. Sweep time is 1 minutes. (Attached Fig.3)



AL12085MT-P15R			Draw No.		Tolerance :	± 0.3mm
Approved By	Checked By	Drawn By	圖號 :	Not to Scale	公差 :	
			比例 :		單位 :	mm