

承認書

Number Of The Edition : 1.1

CUSTOMER'S APPROVED SIGNATURE		



<http://www.kingstate.com.tw>

Approved by	Checked by	Issued by
		Junqi Liu 06/20/11'

A. SCOPE 範疇

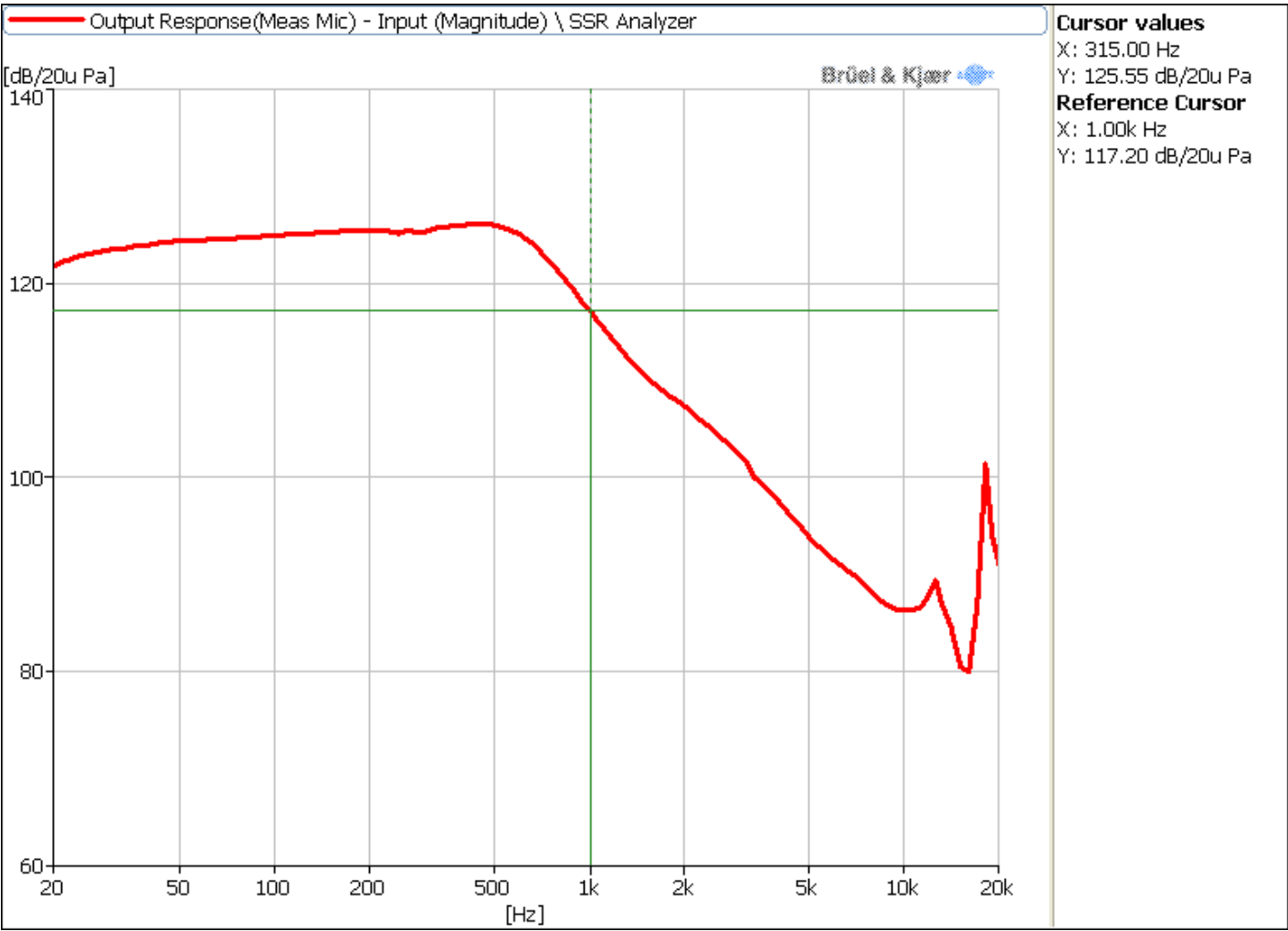
This specification applies receiver, **KDRG14818A-2**

此規格書適用於受話器, **KDRG14818A-2**

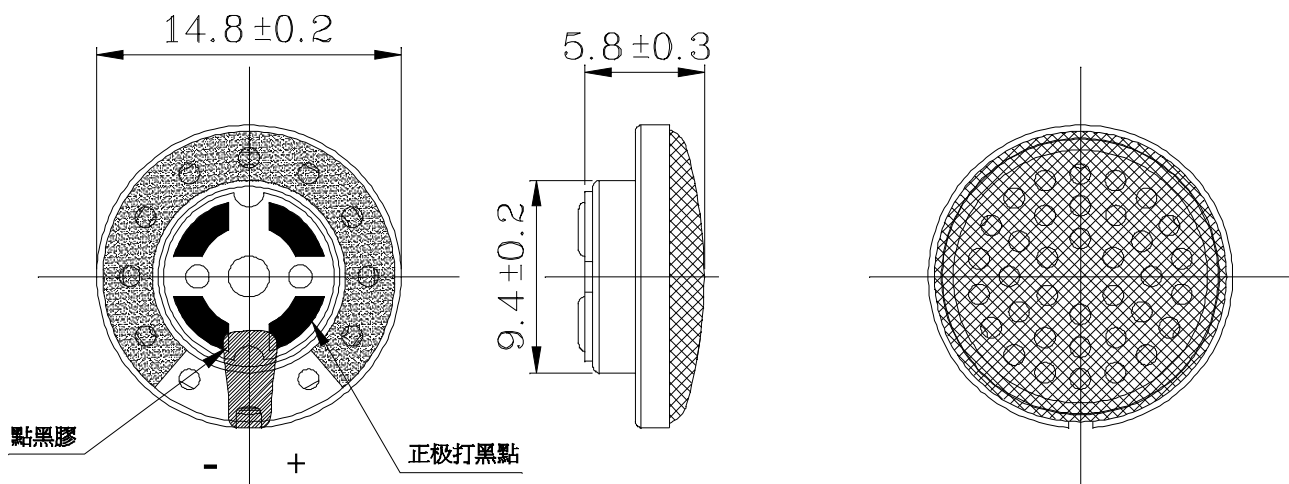
B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	φ 14.8 x 5.8	Refer to attached drawing in details
2	Rated Power 額定功率		mW	1	White noise
3	Max. Input Power 最大輸入功率		mW	3	Maximum Power:IEC-60268-5 Filter 60s On/120s Off 10 Cycles (Room TEMP.)
4	Impedance 阻抗	Ω	ohm	$18 \pm 15\%$	At 1.0kHz
5	Insulation Impedance 絕緣阻抗		M Ω	10	At 100 V D.C. between the terminal and receiver basket
6	S.P.L. 音壓位準		dB	117 $\pm$ 3	At 1.0KHz 130mV rms
7	Frequency Rang 有效頻寬		Hz	20~20KHz	量產產線頻率曲線測試範圍為 100Hz~5KHz 曲線無不良
8	Distortion 失真		%	5% Max.	At 300Hz~3.0KHz 130mV rms
9	Operating temp. 操作溫度		℃	-20~+55	
10	Buzze & Rattle 異常音				Not be audible at 200mV sine wave between 50Hz~4.0KHz 輸入 200mV 正弦波從 50Hz 到 4. 0KHz 之間無異常音.
11	Weight 重量		g	1.9	
12	Material 材質			Metal	
13	Environmental Protection Regulation 環保法規			RoHS	

C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線



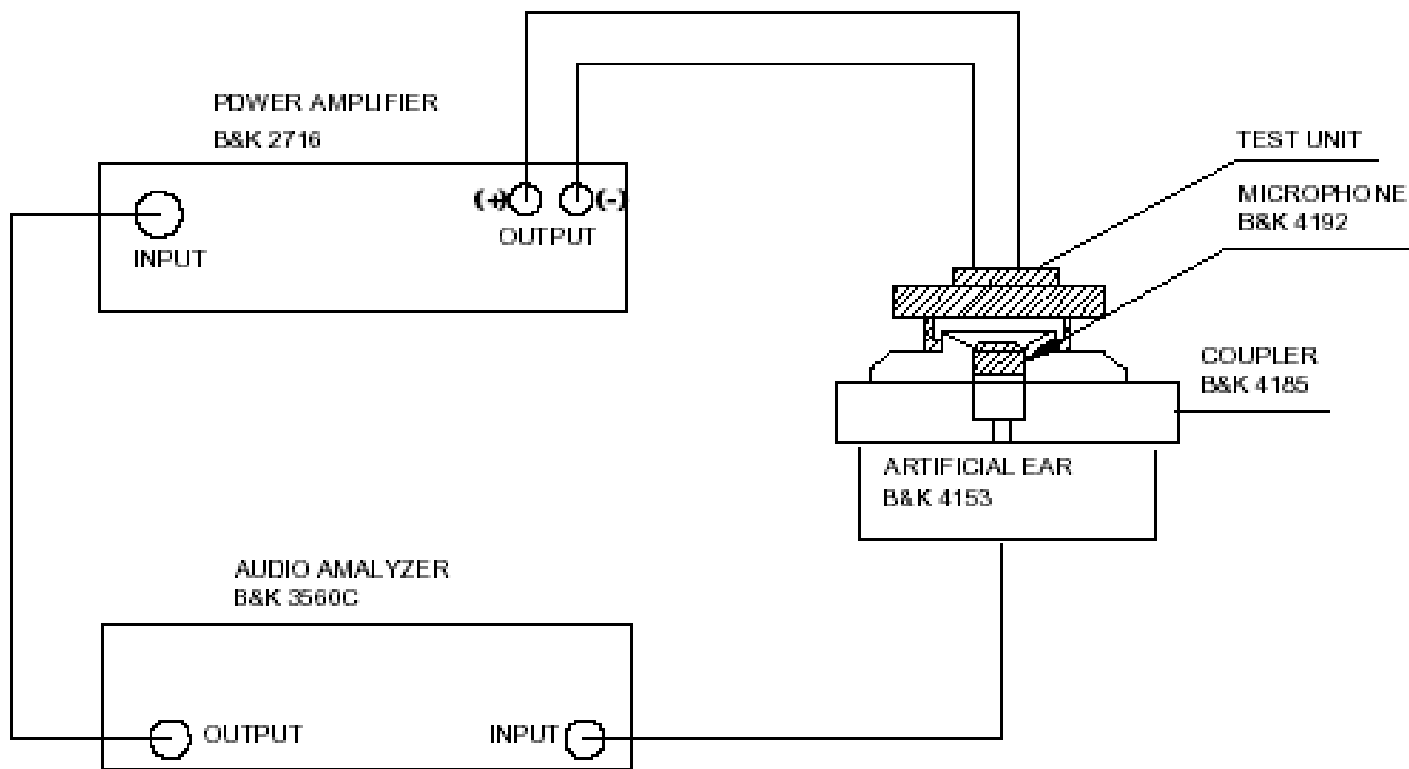
D. APPEARANCE DRAWING 外觀尺寸圖



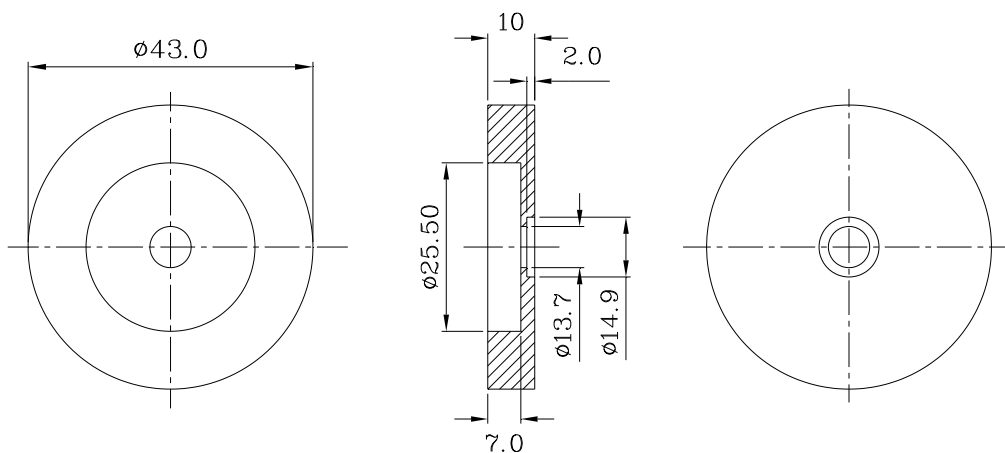
Tol: ± 0.3

Unit: mm

E. MEASUREMENT METHOD 測量路線



Receiver 測試治具

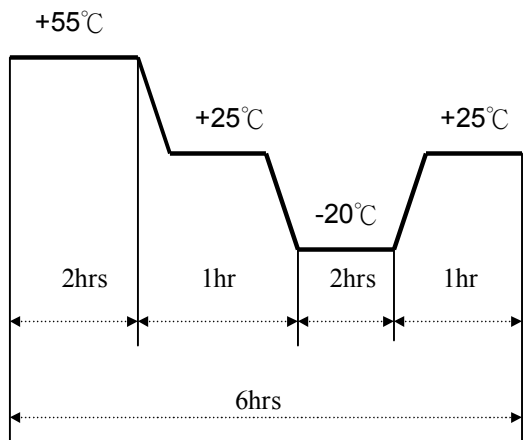


Tol: ± 0.2
Unit: mm

F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test conditions	Evaluation standard
1	Solderability 焊錫附著性 (Connector excepted) 端子類不適用此項	Stripped wires of lead wires are immersed in rosin for 5 seconds and then immersed in solder bath of $+270\pm 5^{\circ}\text{C}$ for 3 ± 0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入 $+270\pm 5^{\circ}\text{C}$ 熔融焊錫槽 3 ± 0.5 秒.	90% min. stripped wires shall be wet with solder. (Except the edge of terminal) 浸入裸線部份附著焊錫 90% 以上.(末端斷面不算)
2	Lead Wire Pull Strength 線材拉力	The pull force shall be applied to double lead wire : Horizontal 3.0N(0.306kg) for 30 seconds. Vertical 2.0N(0.204kg) for 30 seconds. 雙線材水平方向施以 3.0N(0.306kg)的力量, 垂直方向施以 2.0N(0.204kg)的力量,各 30 秒	No damage and cutting off. 線材不鬆動,不脫落.
3	Vibration test 振動測試	Receiver shall be measured after being applied vibration of amplitude of 1.5mm with 10 to 55hz band of vibration frequency to each of 3 per-pendicular directions for 2 hours. 振動週波數 10~55HZ、全振幅 1.5mm 於 X.Y.Z 3 個方向, 各 2 小時.	No obstacle to be harmful to normal operation; damages, cracks, rusts and distortions. Should not be audible at 130mV sine wave between 50Hz~2.0KHz
4	Drop test 落下測試	Drop the receiver contained in normal box onto the board 40mm thick 10 times from the height of 75cm 將受話器置於盒中, 自 75 公分高度落在 40mm 木板上共 10 次.	測試後無任何障礙防礙正常操作. 且在輸入 130mV 正弦波從 50Hz 到 2.0KHz 之間無異常音.

G. ENVIRONMENT TEST 環境測試

No.	Item	Test conditions	Evaluation standard
1	High temp. Test 高溫測試	After being placed in a chamber at $+55^{\circ}\text{C}$ for 96 hours 置於 $+55^{\circ}\text{C}$ 環境 96 小時	Being placed for 6 hours at $+25^{\circ}\text{C}$, receiver shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 130mV, sine wave between 50Hz~2.0KHz. inputting 130mV S.P.L. deviation of unit should be within $\pm 3\text{dB}$ 經測試後, 靜置於 $+25^{\circ}\text{C}$ (室溫) 環境中 6 小時後, 測試後無任何障礙防礙正常操作. 且在輸入 130mV 正弦波從 50Hz 到 2.0KHz 之間無異常音, 輸入 130mV 輸出音壓變化量在 $\pm 3\text{dB}$ 內.
2	Low temp. Test 低溫測試	After being placed in a chamber at -20°C for 96 hours. 置於 -20°C 環境中 96 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at $+96^{\circ}\text{C}$ and $90\pm 5\%\text{RH}$ relative humidity for 72 hours. 置於 $+40^{\circ}\text{C}$, 相對濕度 $90\pm 5\%$ 環境中 96 小時	
4	Thermal cycle test 溫度循環測試	The part shall be subjected to 6 cycles. One cycle shall be consist of: 單體承受溫度循環測 6 次, 其循環內容如圖示: 	

H. RELIABILITY TEST 信賴性測試

No.	Item	Test conditions	Evaluation standard
1	Load test 連續負荷	1mW white noise is applied for 24 hours, at room temp 在室溫下,輸入功率 1mW, 白雜音連續操作 24 小時.	Being placed for 1 hours at +25°C, receiver shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 130mV, sine wave between 50Hz~2.0KHz. inputting 130mV S.P.L. deviation of unit should be within $\pm 3\text{dB}$ 經測試後, 靜置於+25°C (室溫) 環境中 1 小時後, 測試後無任何障礙防礙正常操作. 且在輸入 130mV 正弦波從 50Hz 到 2.0KHz 之間無異常音. 輸入 130mV 輸出音壓變化量在 $\pm 3\text{dB}$ 內.

TEST CONDITION.

Standard Test Condition : a) Temperature : +17 ~ +25°C b) Humidity : 45-85% c) Pressure : 860-1060mbar

一般測試條件 : a) 溫度 : +17 ~ +25°C b) 濕度 : 45-85% c) 氣壓 : 860-1060mbar

Judgement Test Condition : a) Temperature : +20 $\pm$ 2°C b) Humidity : 60-70% c) Pressure : 860-1060mbar

爭議時測試條件 : a) 溫度 : +20 $\pm$ 2°C b) 濕度 : 60-70% c) 氣壓 : 860-1060mbar

I. PACKING STANDARD 包裝規格

