SPECIFICATION FOR APPROVAL

承　　認　　書

Description	:	**Dynamic Speaker**
Kingstate Part No.	:	**TRFG6666008Y-40W**
Customer's Model No.	:	
Specification No.	:	**DOD-3318**
Number Of The Edition	:	**1.1**

CUSTOMER'S APPROVED SIGNATURE		

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Approved by	Checked by	Issued by
Jeff 2007.20	Jeff 2007.20	Sid 2007.7

A. RELEASE HISTORY 發行歷史

Version	Date	Description	Remark
1.1		Creation	

Preliminary

A. SCOPE 範疇

This specification applies speaker, **TRFG6666008Y-40W**
此規格書適用於喇叭, **TRFG6666008Y-40W**

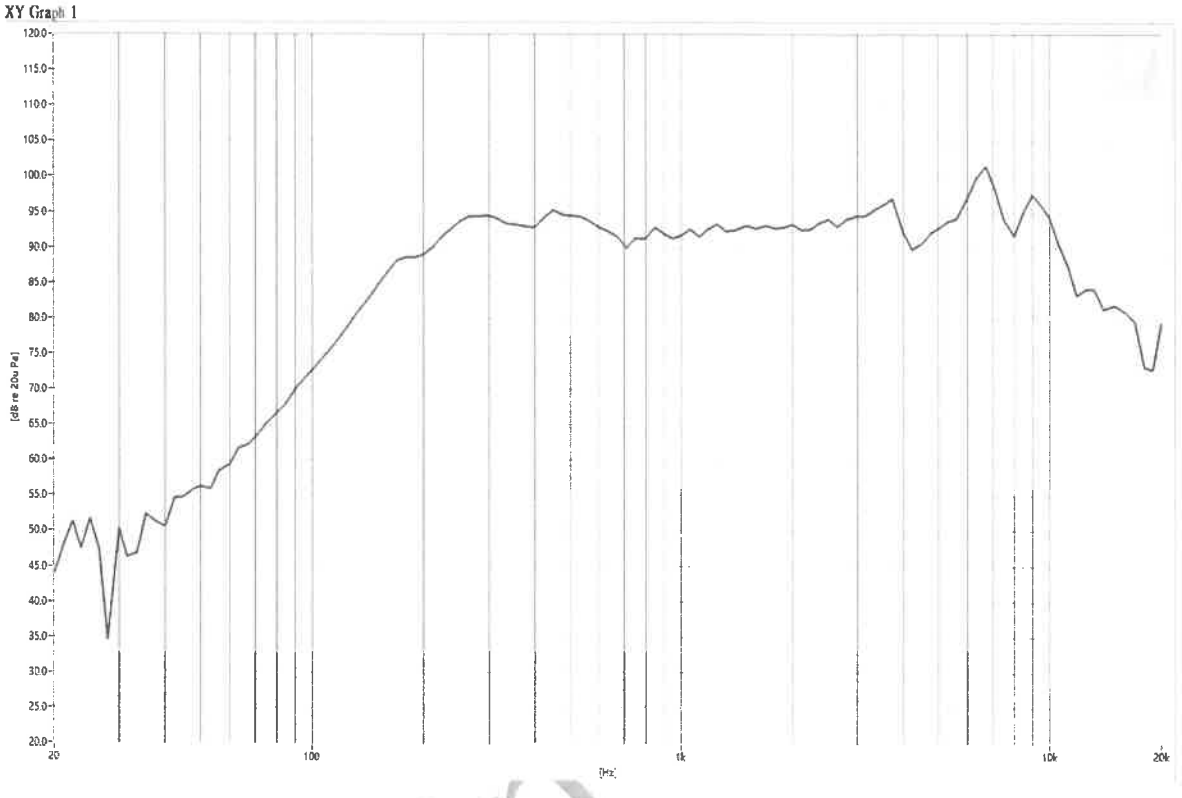
B. SPECIFICATION 規格

No.	Item	Symbol	Unit	Specification	Condition
1	Dimension 尺寸		mm	66 x 66 x 29	Refer to attached drawing in details
2	Rated Power 額定功率		W	4	
3	Max. Input Power 最大輸入功率		W	5	Maximum Power:IEC-60268-5 Filter 60s ON/120s Off 10 Cycles(Room Temp)
4	Impedance 阻抗	Ω	ohm	8 ± 15%	@ 800Hz, 1Vrms input
5	Resonance Frequency 低音諧振	F0	Hz	230 ± 20%	In free air input 1v
6	S.P.L. 音壓位準		dB	92 ± 3 (1W/50cm).	At 1,1.4,1.7,2KHz (Average figures)
7	Frequency Rang 有效頻寬		Hz	fo~12K	Output S.P.L. -10dB
8	Distortion 失真		%	5% Max	At 1KHz, 4W/0.5m
9	Operating temp. 操作溫度		℃	-30 ~ +70	
10	Storage temp. 存儲溫度		℃	-40 ~ +85	
11	Buzzer & Rattle 異常音				Not be audible at 5.65V sine wave between From Fo~12K 輸入 5.65V 正弦波從 F0 到 12K 之間無異常音
12	Weight 重量		g	202	
13	Cone 材質			Paper+布邊	
14	Gasket 材質			Paper	
15	Environmental Protection Regulation 環保法規			HSF	

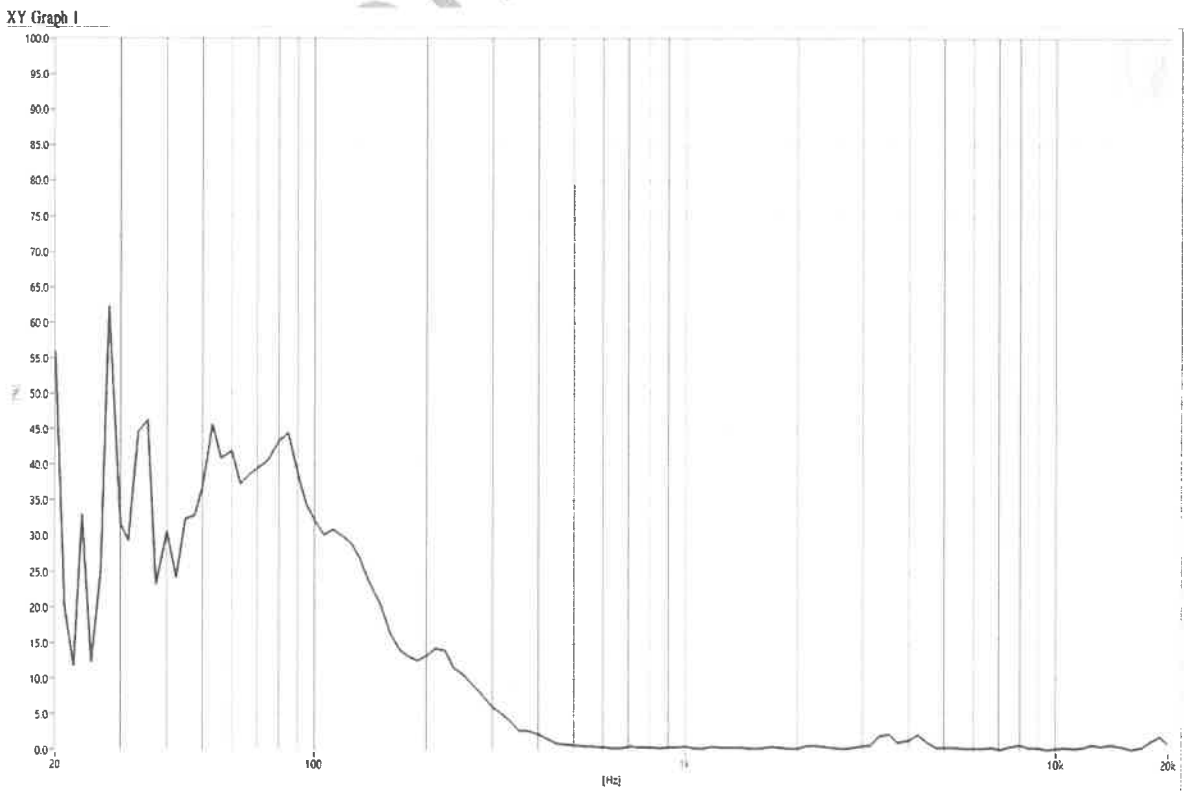
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C. TYPICAL FREQUENCY RESPONSE CURVE 頻率響應曲線

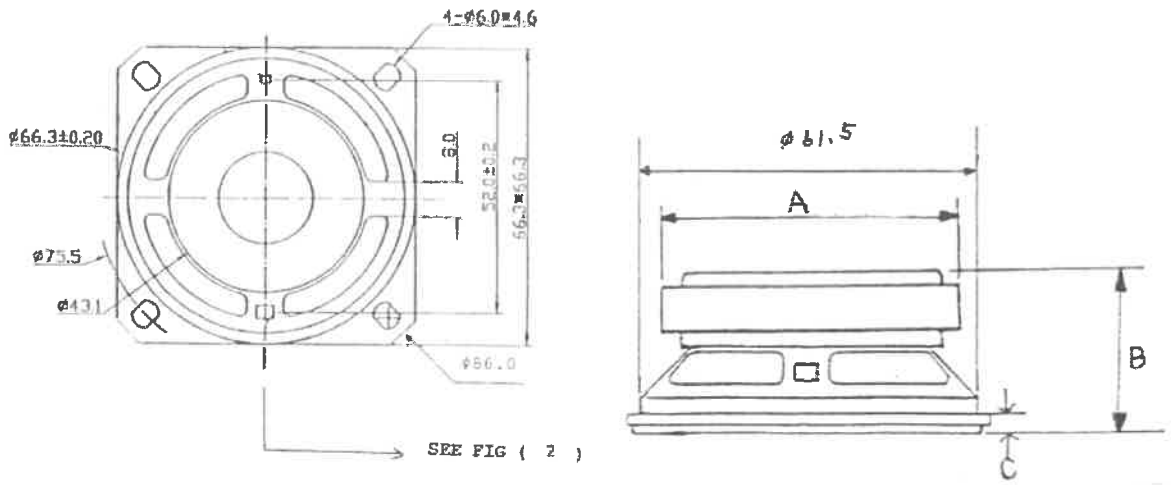
SPL Curve



THD Curve

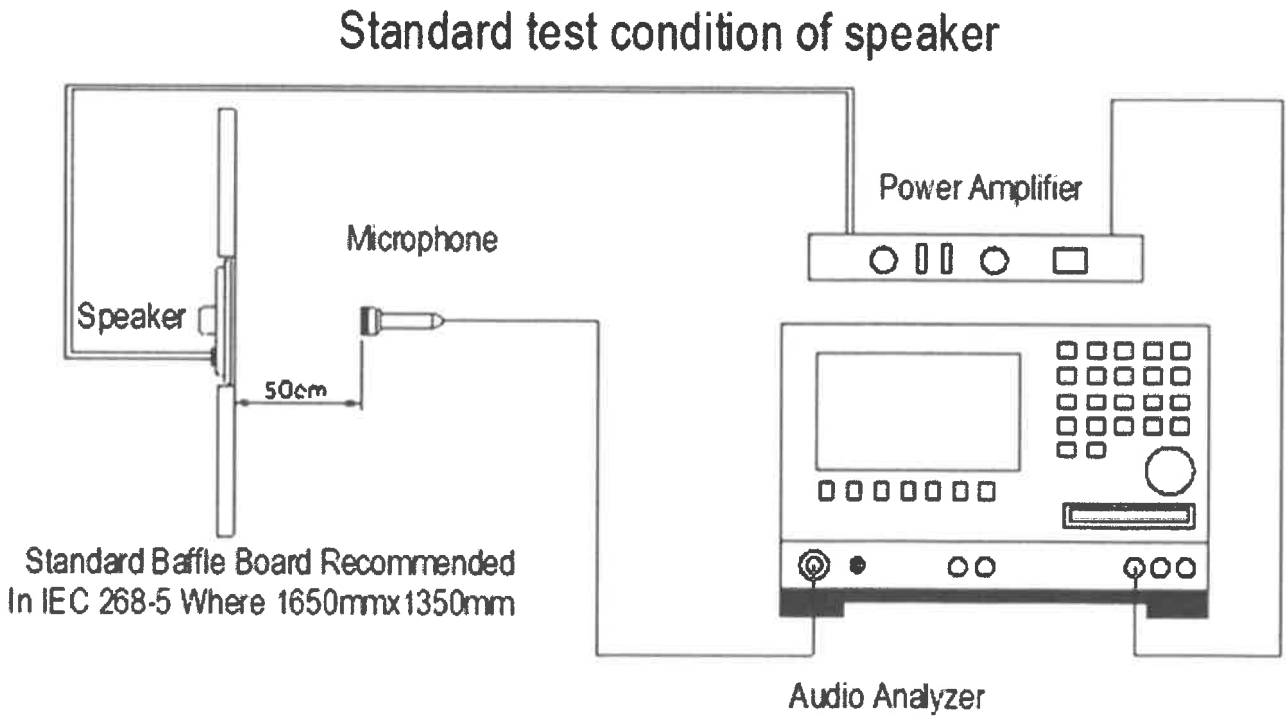


D. APPEARANCE DRAWING 外觀尺寸圖



編號	A	B	C
尺寸	60mm	29.5mm	3mm
10mm 以下±0.5		11-30mm±0.8	

E. MEASUREMENT CIRCUIT 測量線路

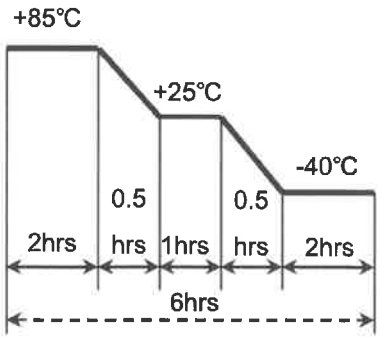


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F. MECHANICAL CHARACTERISTICS 機械特性

No.	Item	Test condition	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±5℃ for 3±0.5 seconds. 裸線部份浸入松香溶液 5 秒後,再浸入+270±5℃溶融焊錫槽 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 : Horizontal3.0N(0.306kg) for 30seconds. Vertical2.0N(0.204kg) for 30seconds. 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	Speaker 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 5.65Vrms sine wave between 230 ~ 12kHz 測試後無任何障礙防礙正常操作.且在輸入5.65Vrms 正弦波從230到12kHz 之間無異常音
4	Drop Test 落下測試	Drop the speakers contained in normal box onto the board 40mm thick 10 times from the height of 75cm 將揚聲器置於盒中, 自 75 公分高度落在 40mm 木板上共 10 次.	

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 +85℃ for 96 hours 置於+85℃環境中 96 小時	Being placed for 6 hours at +25℃, speaker shall be measured. No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 5.65Vrms sine wave between 230~12kHz. F0 should meet initial one. S.P.L. deviation of unit should be within ±3dB. 經測試後, 靜置於+25℃(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 5.65Vrms 正弦波 230 到 12kHz 之間無異常音. F0 與原規格值相同, 輸出音壓變化量在±3dB 內.
2	Low temp. Test 低溫測試	After being placed in a chamber at -40℃ for 96 hours. 置於-40℃環境中 96 小時	
3	Humidity test 相對濕度測試	After being placed in a chamber at +40℃and 95% RH relative humidity for 96 hours. 置於+40℃, 相對濕度 95%環境中 96 小時	
4	Temp. cycle test 溫度循環測試	The part shall be subjected to 5 cycles. One cycle shall be consist of: 單體承受溫度循環測試 5 次, 其循環內容如圖示:  	

Preliminary

H. RELIABILITY TEST 信賴性測試

No.	Item	Test conditions	Evaluation standard
1	Load test 連續負荷	Rated Power White noise is applied for 24 hours 連續 24 小時輸入額定功率的白色噪音	Being placed for 1 hours at +25℃, speaker shall be measured No obstacle to be harmful to normal operation; damages, cracks, rusts, etc. Should not be audible at 5.65Vrms sine wave between 230 ~12kHz. F0 should meet initial one. S.P.L. deviation of unit should be within ± 3dB 經測試後，靜置於+25℃（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 5. 65Vrms 正弦波從 230~12KHz 之間無異常音. F0 與原規格值相同輸出音壓變化量在±3dB 內

TEST CONDITION.

Standard Test Condition:	a)Temperature: +5 ~ +35℃	b) Humidity:45-85%	c) Pressure:860-1060mbar
一般測試條件	a)溫度: +5 ~ +35℃	b)濕度: 45-85%	c)氣壓:860-1060mbar
JudgmentTestCondition	a)Temperature: +25 ±2℃	b)Humidity: 60-70%	c) Pressure:860-1060mbar
爭議時測試條件	a)溫度: +25 ±2℃	b) 濕度:60-70%	c)氣壓:860-1060mbar

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I.PACKING STANDARD 包裝規格

