

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	DYNAMIC RECEIVER
Part No.	AR-4040JA-1-LF (RoHS)
Customer Approval	

Approved By	Checked By	Made By
工程 部 王台平 MAR-29-2007	工程 部 劉民祥 MAR-29-2007	工程 部 許俊程 MAR-29-2007



ADVANCED ACOUSTIC TECHNOLOGY CORP.

苙 翔 科 技 股 份 有 限 公 司



ISO 9001 Certified

2F, No.207, Sec. 6, Chung Shan N. Rd., Taipei, Taiwan

TEL: +886-2-88665255

FAX: +886-2-88665250

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

1. SPECIFICATION

AR-4040JA-1-LF

ITEMS.		SPECIFICATIONS
01	Type	Dynamic Φ 40 mm receiver unit
02	Receiver Diaphragm	16u
03	Sensitivity (S.P.L)	117dB \pm 3 dB at 1kHz 200mV with IEC 318 coupler
04	Impedance.	40 Ohm \pm 15% at 1KHz
05	Nominal Input Power	5 mW
06	Max. Input Power.	20 mW for 1 minute.
07	Frequency Range	100 – 3.4K Hz
08	Total Harmonics Distortion	Max 5 % at 1K Hz,1mW.
09	Operation temperature	-20 $^{\circ}$ C to +60 $^{\circ}$ C
10	Storage temperature	-30 $^{\circ}$ C to +70 $^{\circ}$ C
11	Weight.	16g \pm 2g

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35 $^{\circ}$ C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

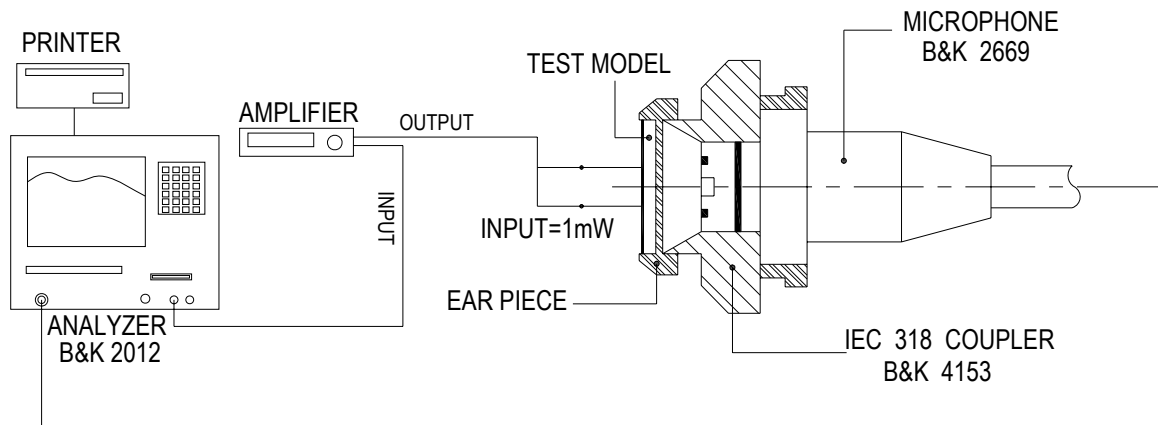
Temperature : 20 \pm 3 $^{\circ}$ C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

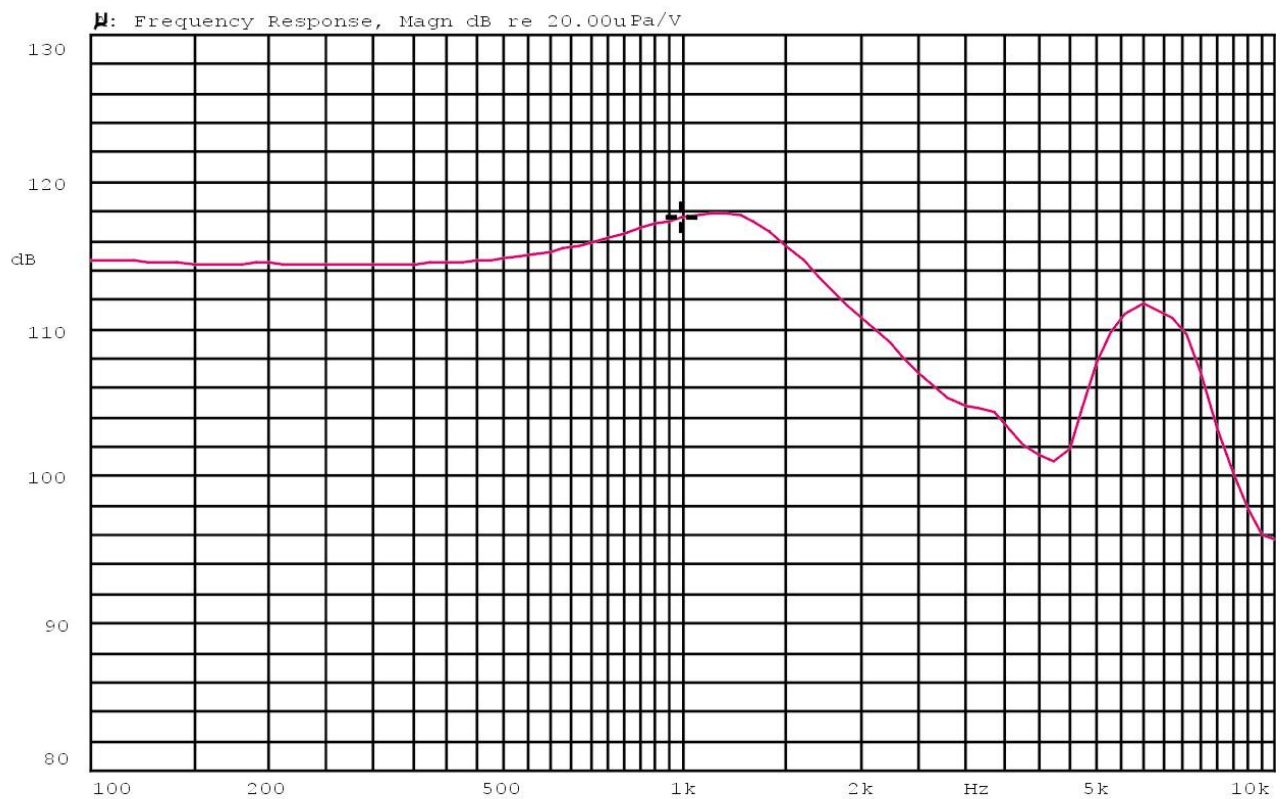
2-2. Standard Test Fixture

Input signal : 1mW(200mV)



2-3. Frequency Response Curve

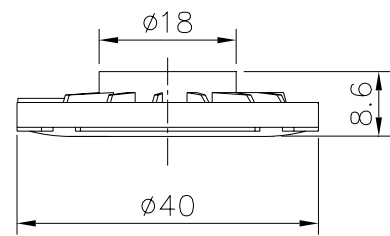
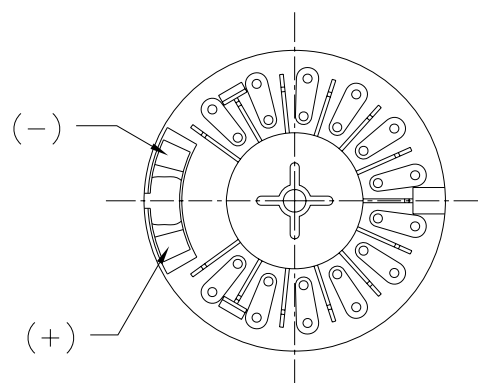
X:1.0000kHz Y:117.59dB ZA:Live Curve SSR Fund.



Mode: Receiver

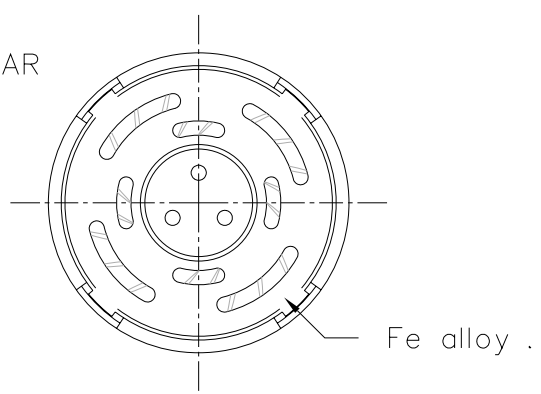


REV NO.	REVISION NOTE	APPROVAL	DATE
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CASE : ABS .

DIAPHRAGM : LIMPID MYLAR

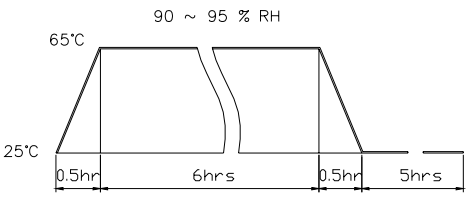


TITLE: RECEIVER		DRAWN: JOHN 03/29/2007	SCALE: 1:1	SHEET: 1 of 1
PART NO. AR-4040JA-1-LF	1	DESIGNED: R&D OF AAT	UNITS: mm	
DWG NO. DTS-1223		CHECKED:	TOLERANCE ± 0.3	
	REV	APPROVAL:	UNLESS OTHERWISE SPECIFIED:	
		MATERIAL: *****	ONE PLACE DECIMAL ± ***	
			TWO PLACE DECIMAL ± ***	
			THREE PLACE DECIMAL ± ***	



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4. RELIABILITY TESTS

ITEMS.		SPECIFICATIONS
01	High temp. Test	Keep 96 hours at $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
02	Low temp. Test	Keep 96 hours at $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$ and leave 3 hours in normal temperature and then check
03	Humidity test	Keep 96 hours at $+40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ relative humidity 90% and leave 3 hours in normal temperature and then checked.
04	Temp./humidity cycle	<p>The part shall be subjected 5 cycles. One cycle shall be 12 hours and consist of;</p> 
05	Thermal Cycle Test.	Low temperature: $-30^{\circ}\text{C} \pm 3^{\circ}\text{C}$, temperature: $+70^{\circ}\text{C} \pm 3^{\circ}\text{C}$, cycle: 1 hour/cycle each, and then keep 5 cycles in a room.
06	Vibration	10~200~10Hz Sin-Wave Sweep 15min. 5G(Constant) X,Y, Z 3 direction. 2 hours each, total 6 hours.
07	Fix Drop test	Fix on Jig. then drop from 152cm height to the concrete floor X,Y, Z 6 direction. 5 times each, total 30 times.
08	Free Drop test	Free drop from 100cm height to the concrete floor X,y, z 6 direction. 1 times each, total 6 times.
09	Load test	Rated power white noise is applied for 96 hours
10	Max Power test	Max Power 1 minute on – 2 minute off 10 cycles.
<p>Criterion :</p> <p>After these test , the change of S.P.L shall be within ± 3 dB.</p>		

SOLDERING CONDITION

Recommend using constant branding iron in 30W, and in temperature range $350 \pm 10^{\circ}\text{C}$
Soldering time 2 seconds.