

MESSRS.

SPECIFICATION FOR APPROVAL

承 認 書

Product	DYNAMIC RECEIVER
Part No.	AR-1532DA-19W
Customer Approval	

Approved By	Checked By	Made By
工程 部 王台平 SEP-13-2004	工程 部 劉民祥 SEP-13-2004	工程 部 許俊程 SEP-13-2004



ADVANCED ACOUSTIC TECHNOLOGY CORP.

苙 翔 科 技 股 份 有 限 公 司



ISO 9001 Certified

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1. SPECIFICATION

ITEMS.		SPECIFICATIONS
01	Type	Dynamic 15mm receiver unit
02	Sensitivity (S.P.L)	115dB \pm 3 dB at 1kHz 180mV with IEC 318 coupler
03	Impedance.	32 Ohm \pm 15% at 1KHz
04	Magnet Field Intensity.	Axial – dB , Radial –dB at 1KHz
05	Nominal Input Power	1 mW
06	Max. Input Power.	Must be normal at a white noise , 2mW for 1 minute.
07	Total Harmonics Distortion	Max 8 % at 1K Hz.
08	Operation temperature	-20°C to +60°C
09	Storage temperature	-30°C to +70°C
10	Weight.	1.3g \pm 0.3g

2. MEASURING METHOD

2-1. Test Condition

STANDARD

Temperature : 15 ~ 35°C

Relative humidity : 45% ~ 85%,

Atmospheric pressure : 860mbar to 1060mbar.

JUDGEMENT

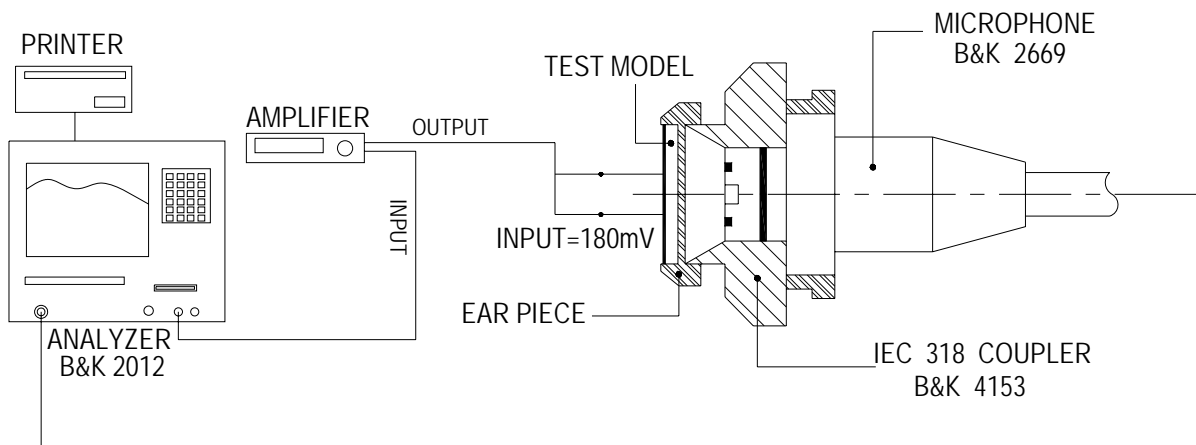
Temperature : 20 \pm 3°C

Relative humidity : 60% ~ 70%,

Atmospheric pressure : 860mbar to 1060mbar

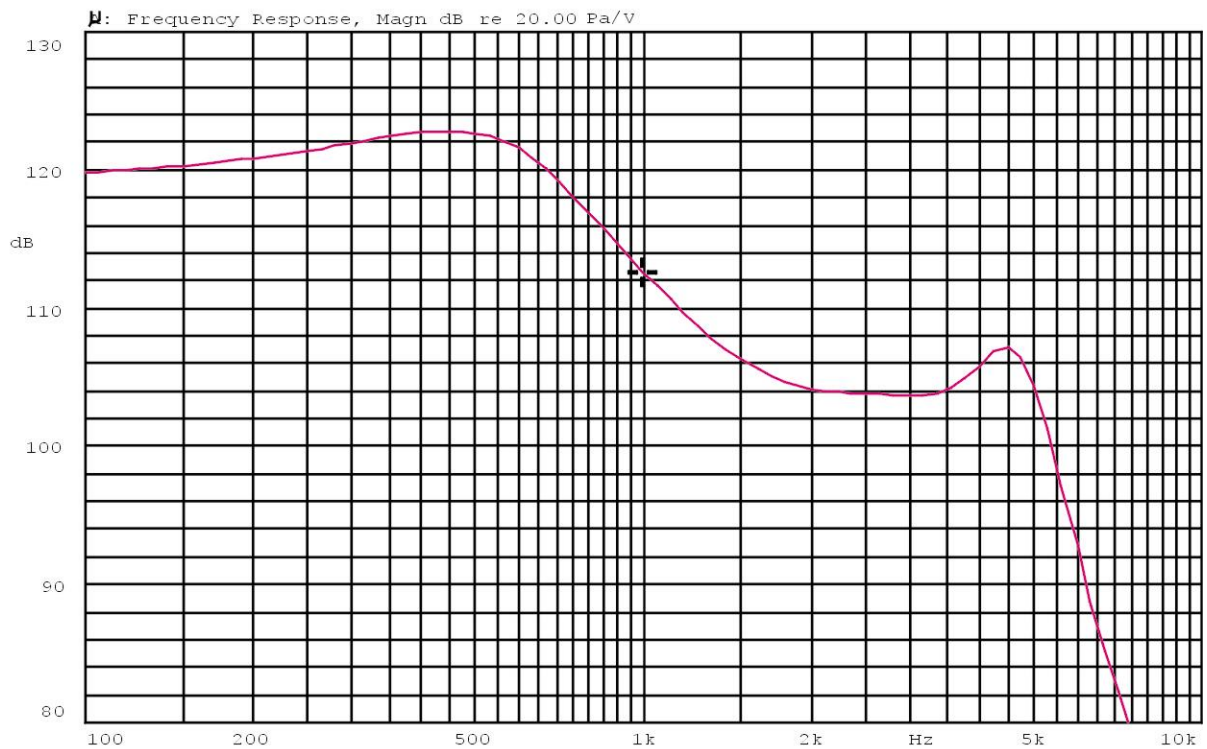
2-2. Standard Test Fixture

Input signal : 180mV



2.3 2Frequency Response Curve

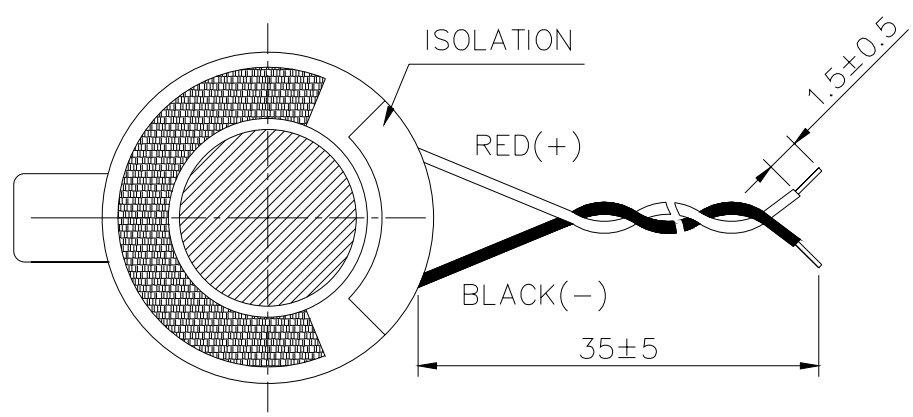
X:1.0000kHz *Y:112.56dB EA:Live Curve SSR Fund.



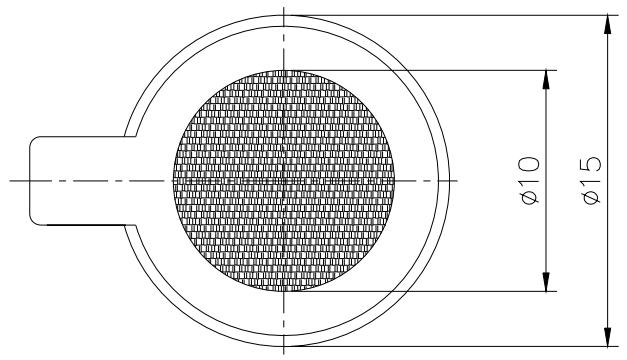
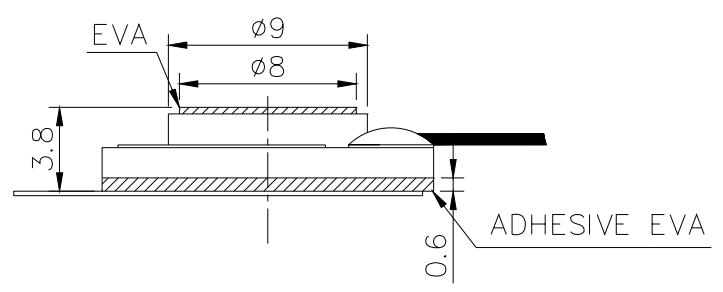
Mode: Receiver



REV NO.	REVISION NOTE	APPROVAL	DATE
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WIRE : UL1571 AWG32

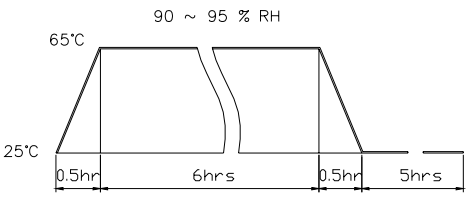


TITLE: DYNAMIC RECEIVER		DRAWN: JOYEN 09/13/2004	SCALE: 3:1	SHEET: 1 of 1
PART NO. AR-1532DA-19W		DESIGNED: R & D OF AAT	UNITS: mm	
DWG NO. DTR-1084	1 REV	CHECKED:	TOLERANCE ± 0.2	
		APPROVAL:	UNLESS OTHERWISE SPECIFIED: ONE PLACE DECIMAL ± ***	
		MATERIAL: *****	TWO PLACE DECIMAL ± *** THREE PLACE DECIMAL ± ***	



苙翔科技股份有限公司
ADVANCED ACOUSTIC TECHNOLOGY CORPORATION

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 $-20^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 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>  <p style="text-align: center;"> 65°C $90 \sim 95 \% \text{ RH}$ 25°C 0.5hr 6hrs 0.5hr 5hrs </p>
05	Thermal Cycle Test.	Low temperature: $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$, 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	DC Voltage test	DC 0.25V for 1 hour.
10	Load test	Rated power white noise is applied for 96 hours
11	Max Power test	Max Power 1 minute on – 1 minute off 10 cycles.



Test Report

ADVANCED ACOUSTIC TECHNOLOGY CORPORATION Report No. : CE/2004/91205
2F, NO. 207, SEC. 6, CHUNG SHAN N. RD., SHIH-LIN, Date : 2004/09/09
TAIPEI, TAIWAN, R. O. C. Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

Type of Product : RECEIVER
Style/Item No : FRAME
Sample Received : 2004/09/07
Testing Date : 2004/09/07 TO 2004/09/09

Test Result

PART NAME NO.1 : SILVER-BLUE COLORED METAL

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	35.7				

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit


Daniel Yen, M.P., Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.



Test Report

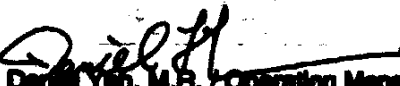
ADVANCED ACOUSTIC TECHNOLOGY CORPORATION Report No. : CE/2004/91206
2F, NO. 207, SEC. 6, CHUNG SHAN N. RD., SHIH-LIN, Date : 2004/09/09
TAIPEI, TAIWAN, R. O. C. Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as :

Type of Product : RECEIVER
Style/Item No : PCB
Sample Received : 2004/09/07
Testing Date : 2004/09/07 TO 2004/09/09

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Test Result : - Please see the next page -


Daniel Yen, M.P. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.



Test Report

No.: SZTYR030930828/LP

Date: SEP 09, 2003

Page 1 of 1

LONSID ELECTRIC CO., LTD.
INDUSTRIAL ZONE OF WEN ZHOU BRIDGE,
YUEQING CITY, ZHE JIANG, CHINA

Report on the submitted sample said to be AUM STYLE: 1007, 1015, 1028, 1032, 1061, 1095, 1571, 1569, 2468, 1617, 1672, 1618, 2651, 2678

Item No. : STYLE UL 1015
Supplier / Manufacturer : LONSID ELECTRIC CO., LTD.
Country of Origin : CHINA
Sample Receiving Date : SEP 05, 2003
Testing Period : SEP 05, 2003 TO SEP 09, 2003

Test Requested : As specified by client, for compliance with the European Standard on Safety of Toys, EN71 Part 3: 1994 (including amendment A1: 2000) - Migration of Certain Elements.

Test Method : As specified in the EN71 part 3: 1994 (including amendment A1: 2000).
Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer.

Results

	Brown plastics w/ black printing (Wire)	Limit
Soluble Lead (Pb)	< 5	90 mg/kg
Soluble Antimony (Sb)	< 5	80 mg/kg
Soluble Arsenic (As)	< 2.5	75 mg/kg
Soluble Barium (Ba)	< 10	1000 mg/kg
Soluble Cadmium (Cd)	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	80 mg/kg
Soluble Mercury (Hg)	< 6.7	60 mg/kg
Soluble Selenium (Se)	< 10	500 mg/kg

Note: - < = Less than
- Results shown are of the adjusted analytical results.

Conclusion : When tested as specified, the submitted sample comply with the stated requirement of the European Standard EN71 Part 3: 1994 (including amendment A1: 2000)

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Yanzheng, Helen
Sr. Section Head

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