

## **SAMPLE APPROVAL**

**PART NUMBER:** MD030B0A-EEN050

**DESCRIPTIONS:** Mylar Speaker, 50 Ohm, 0.3W

**SUMMARY:** DIMENSIONS: Diam.30mm, Height 4.2mm  
STRUCTURE: Low profile internal magnet metal frame  
DIAPHRAGM: PET

**REMARKS:** 1. Production No. MD30B-RB2650  
2. with RoHS compliance

**CONTENTS:** 1. SPECIFICATION  
2. FREQUENCY RESPONSE CURVE  
3. DRAWINGS

**ISSUED BY:**

**APPROVED BY:**

# SPECIFICATION

NO. WBN-COP03-FOR/03 A/1

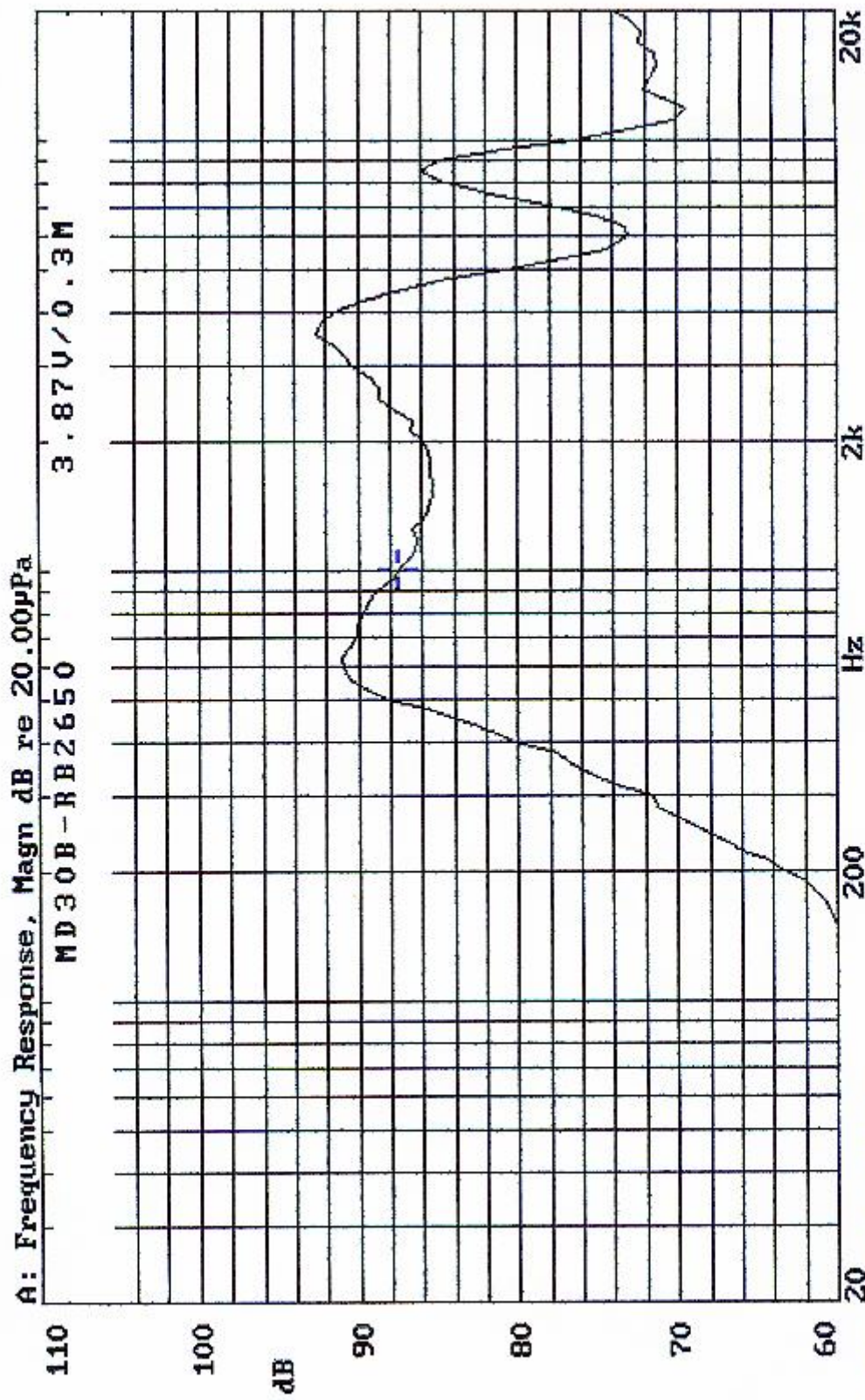
<b>PRODUCTION P/N</b>	MD30B-RB2650	<b>DIMENSIONS</b>	Φ30×4.2H	<b>NET WEIGHT</b>	7.0g
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No.	ITEMS	SPECIFICATION	TESTING CONDITIONS
1	RATED IMPEDANCE	50 Ω ± 15 %	
2	RATED RESONANT FREQUENCY (f <sub>0</sub> )	600Hz ± 20 %	1.0 V
3	RATED CHARACTERISTIC SENSITIVITY GRADE	86±3dB 0.3 m At 1000,1200,1500,2000 Hz Average	AT 1000 Hz 3. 87 V
4	RATED FREQUENCY RANGE	f <sub>0</sub> ~ 4500 Hz	AT 1000 Hz 3. 87 V
5	RATED HARMONIC DISTORTION	< 7 % 1m/1W At f <sub>0</sub> ~ 4500 Hz	AT 1000 Hz 2. 12 V
6	APPEARANCE	NORMAL	@ A.T. 15~35°C, H.M. 25~75%, B.P. 85~106kPa
7	BUZZES & RATTLES	NO APPEARANCE	@ 0.3m with SIN wave input/rated noise power 3. 87 V
8	RATED NOISE POWER	0. 3 W	@ Rated noise voltage operating continuously for 100 hours 3. 87 V
9	RATED LONG-TERM MAXIMUM POWER	0. 5W	@ Simulant program signal for 1 min on & 2 min off, cycling for 10 times 5. 0 V
10	HIGH-TEMPERATURE LOADING & STORAGE	Meet requirements of appearance, buzzes & rattles after test	@ ¼ rated noise voltage/80±2°C operating for 16 hours then depositing for 2 hours at constant temperature, completing testing within 1 hour after withdrawing 1. 9 V
11	STATIC HUMIDITY/TEMPERATURE	Meet requirements of appearance, buzzes & rattles, insulation resistance, bearing voltage after test	@ A.T. 40±2°C, H.M.93 <sup>+2</sup> / <sub>3</sub> % depositing for 48 hours, then resuming @ normal atmosphere conditions (GB/T9396-1996 4.2) for 24 hours
12	LOW-TEMPERATURE LOADING & STORAGE	Meet requirements of appearance, buzzes & rattles solderability after test	@ ¼ rated noise voltage/-10±3°C operating for 1 hours, depositing @ -25±3°C for 2 hours, then resuming at normal atmosphere conditions (GB/T 9396-1996 4.2) for 4 hours 1. 9 V
13	SCANNING VIBRATION		(GB/T 9397-1996-4.5.1)
14	SLIDING SHOCK		(GB/T 9397-1996 4.5.2)
15	COLLISION		(GB/T9397-1996 4.5.3)
16	FREE FALLING		(GB/T 9397-1996 4.5.4)
17	INSULATION RESISTANCE	> 1 M Ω	@ 100V±10% D.C.
18	BEARING VOLTAGE	NO APPEARANCES OF SHORT AND/OR STRIKING	@ 100V/50Hz A.C. for 1 min.
19	SOLDERABILITY	NORMAL	@ Normal atmosphere conditions (GB/T 9396-1996 4.2)

**MEMO:**

<b>DESIGN</b>		<b>AUDIT</b>		<b>APPROVE</b>		<b>CONTROL</b>	
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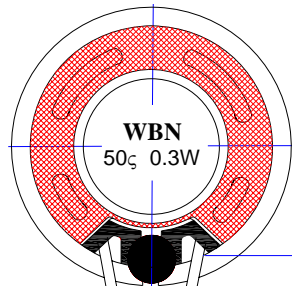
X:1.0000kHz \*Y:87.58dB ZA:Live Curve SSR Fund.



06-JUL-2006 17:10:29

Mode: SPEAKER



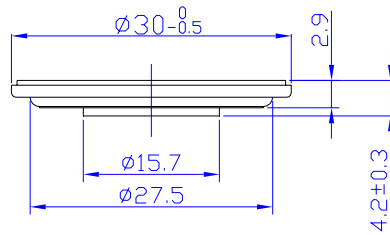


BLACK WIRE

RED WIRE

$2.5 \pm 0.5$

$46 \pm 3$



WIRE SPEC: 5/0.8 RED/BLACK

Drawn by	Designed by	Checked by	Approved by	Date	Scale
				2006. 7. 07	1.5:1
<b>MD30B-RB2650</b>				Edition A	Sheet 1-1
				SHENZHEN WABONY ELECTRONIC CO., LTD	