



Preliminary Specification For The Acoustic Characteristics of Dynamic Speaker

TOTAL PAGE

07

www.be-star.com

RoHS

Customer		Model Name	BDT3228W65M LF
Customer P/N		Product No.	132416
Date	29 Sep. 2012	Issue No.	BS/TES01.1144A
Page	01 of 07	Issue Date	2012/09/29

Approval:

- 1.Characteristics
- 2.Drawing
- 3.Reliability Test
- 4.Packing
- 5.History Change Record

Drawn by	Checked by	Approved by	Customer approved

BESTAR ACOUSTICS CO.,LTD

No.199 HuangHe West Road.New district,ChangZhou,JiangSu Province,P.R.China

Tel: +86 519 88222567

Fax: +86 519 88222551

E-mail:wu@be-star.com

<http://www.be-star.com>

BDT3228W65M LF

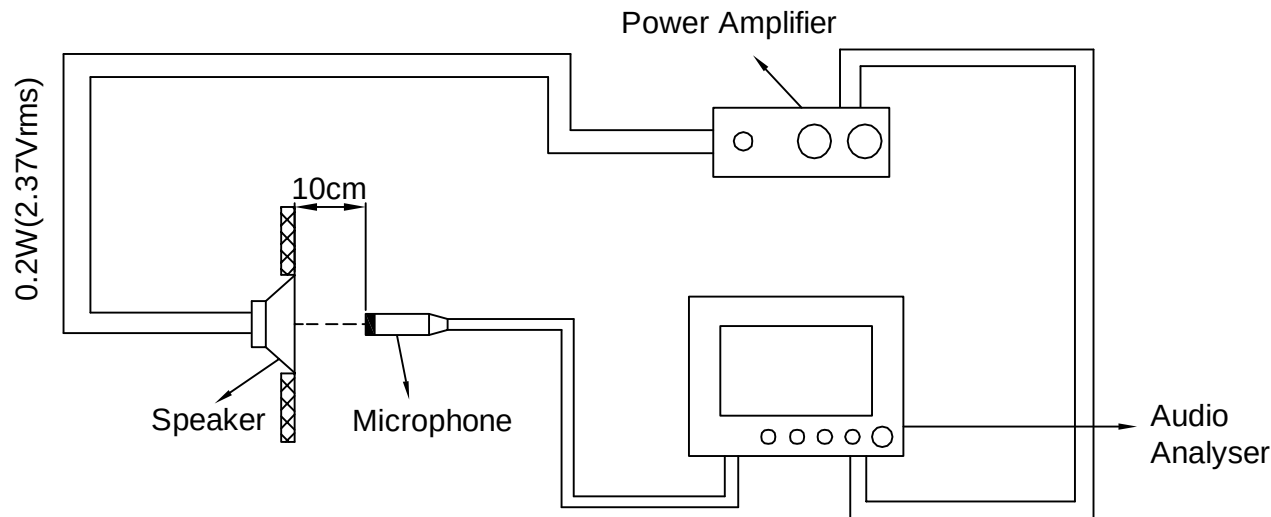


1.Characteristics

1.1 Electrical and Mechanical Characteristics

No.	Item	Specification
1.	Dimension	Ø 34 x 7 (mm)
2.	AC Impedance	28 Ω ± 4 Ω At 1KHz
3.	Rated Input Power	0.5W
4.	Maximum Input Power	0.8W
5.	Resonance Frequency	450Hz ±20%
6.	S.P.L	92dB at 440Hz;92dB at 750Hz;90dB at 1KHz
		≥ 86dB/0.2W /0.1m at 440-2KHz sine wave
7.	THD	500Hz ≤30%,500-1KHz slope from 8%,1K-8KHz ≤8%
8.	Buzzes & Rattles	Must be normal at sine wave 3Vrms
9.	Polarity	Positive voltage to (+),Diaphragm moves forward
10.	Operating Temperature	-40~+ 105°C
11.	Storage Temperature	-40~+ 120°C
12.	Weight	~ 12g

1.2 Test Method



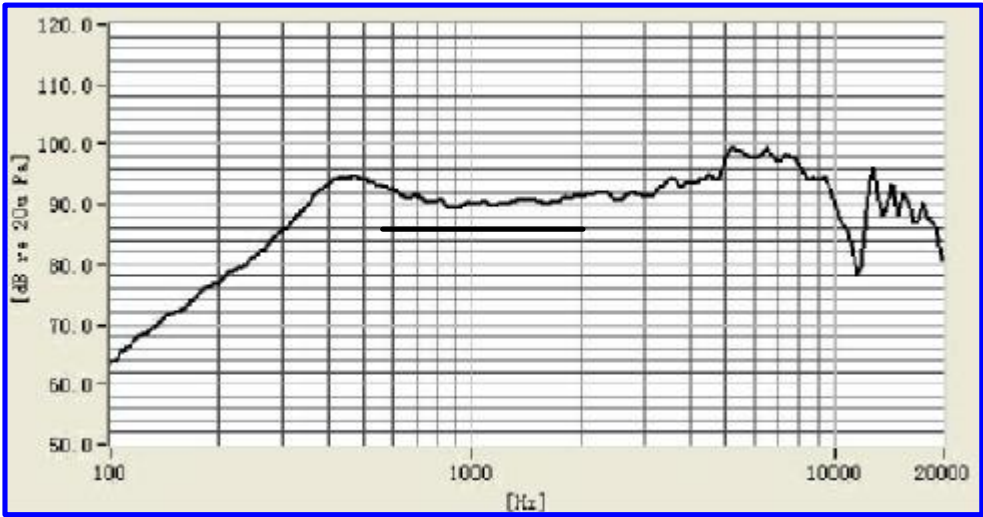
				Date:	2012/09/29	BDT3228W65M LF	
				Drawn by:	袁凯旋		
A	2012/09/29	袁凯旋		Checked by:	汪凤声	Speaker	
Rev.	Date	Drawn	Note	Approved by:	王 平		
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TES01.1144A	Page:02 of 07
www.be-star.com wu@be-star.com							

BDT3228W65M LF

1.3 Frequency Response Curve (only for reference)

A: Frequency Response Magn 0 dB re 20.00 μ Pa/V 1/12Oct

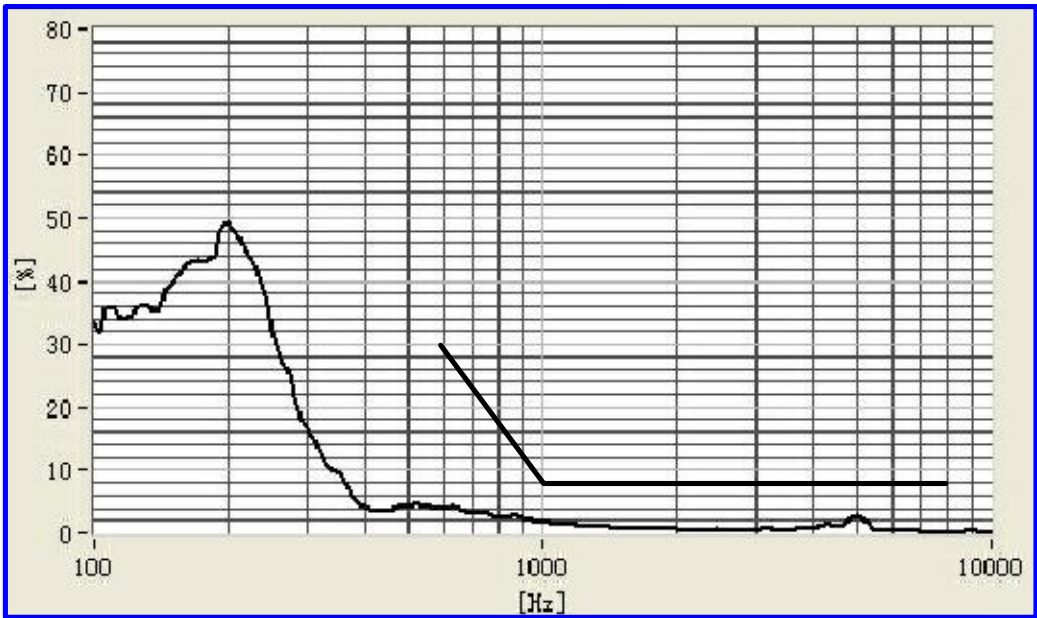
Sound Pressure Level (dB)



Frequency (Hz)

1.4 Total Harmonic Distortion (only for reference)

(%)



Frequency (Hz)

Date:	2012/09/29
Drawn by:	袁凯旋
Checked by:	汪凤声
Approved by:	王 平

BDT3228W65M LF

Speaker

BESTAR ACOUSTICS CO.,LTD

www.be-star.com wu@be-star.com

DRG NO: BS/TES01.1144A

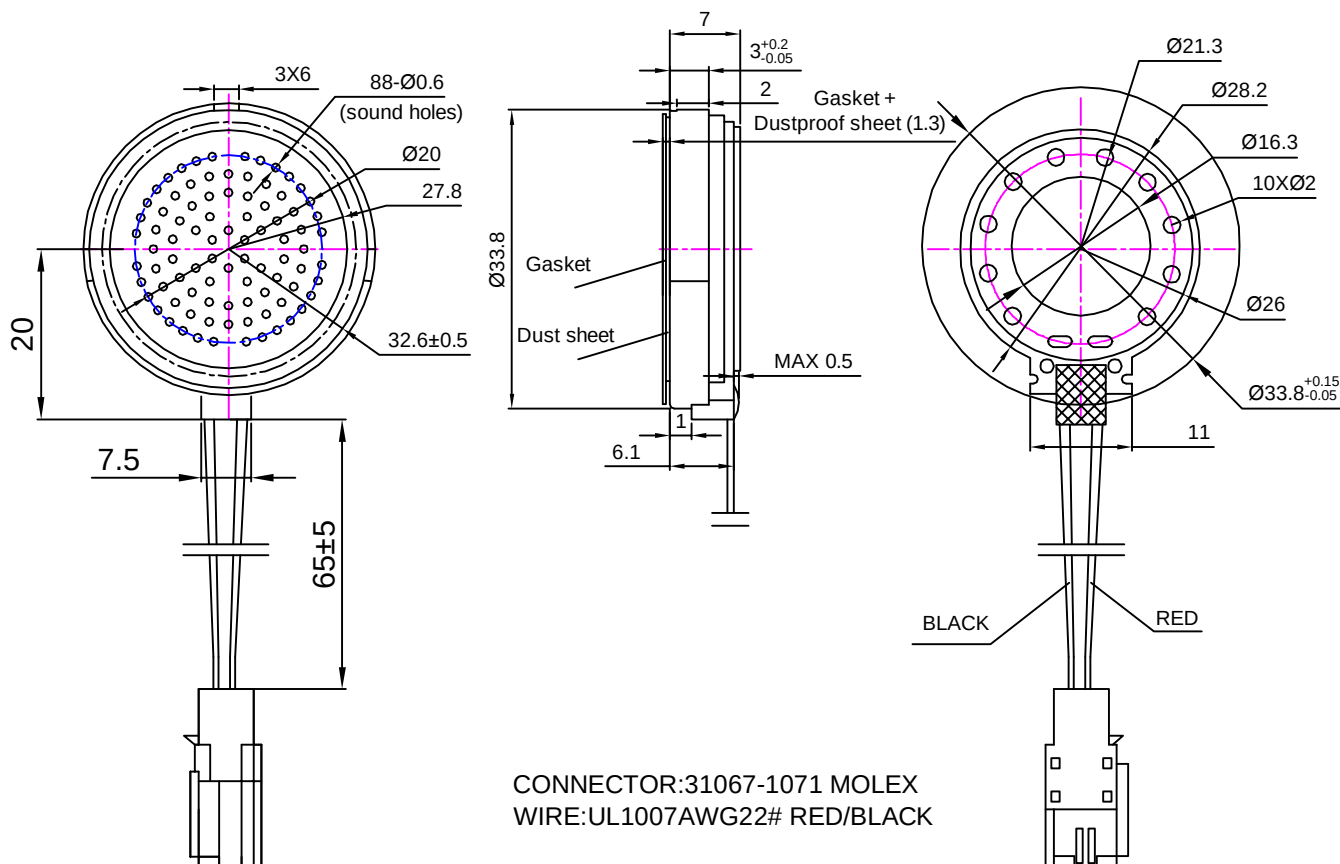
Page:03 of 07

BDT3228W65M LF

2. Drawing

Unit:mm

Tolerance:±0.3



CONNECTOR:31067-1071 MOLEX
WIRE:UL1007AWG22# RED/BLACK

3. Reliability Test

3.1 Load Test

Power (Nom)

Duration

0.5W(400Hz sine wave)

1000hrs

3.2 High Temperature Life Test

Temperature

Input

Duration

+105°C

0.2W/440Hz

500hrs

3.3 Low Temperature Life Test

Temperature

Input

Duration

-40°C

0.2W/440Hz

500hrs

Date: 2012/09/29

Drawn by: 袁凯旋

Checked by: 汪风声

Approved by: 王平

BDT3228W65M LF

Speaker

BESTAR ACOUSTICS CO.,LTD

www.be-star.com wu@be-star.com

DRG NO: BS/TES01.1144A

Page:04 of 07

BDT3228W65M LF

3.4 High Temperature Test

Temperature

+120°C

Duration

96hrs

3.5 Low Temperature Test

Temperature

-40°C

Duration

96hrs

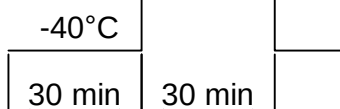
3.6 Thermal shock Test

Cycles

1000

+105°C

Condition



3.7 Vibration Test

Vibration frequency

10-200-10Hz/sine wave

Amplitude

Sweep 15min/49m/s²

Duration

6hrs

3.8 Fixed Drop Test

Height

1.0m

Drop face

Fix onto standard Jig, drop on concrete floor

Times

6 (X,Y,Z direction 1 time each, total 6 times)

3.9 Free Drop Test

Height

1.0m

Drop face

Free drop on concrete floor

Times

3 (X,Y,Z direction 1 time each, total 3 times)

Notice:

- 1.All these tests above should be measured after leaving normal temperature for 2hrs.
- 2.After the test the part shall meet specifications without any degradation in appearance and performance except SPL.SPL shall be 83dB or more from initial value after test.

Date:

2012/09/29

BDT3228W65M LF

Drawn by:

袁凯旋

A

2012/09/29

袁凯旋

Checked by:

汪凤声

Speaker

Rev.

Date

Drawn

Note

Approved by:

王 平

BESTAR ACOUSTICS CO.,LTD

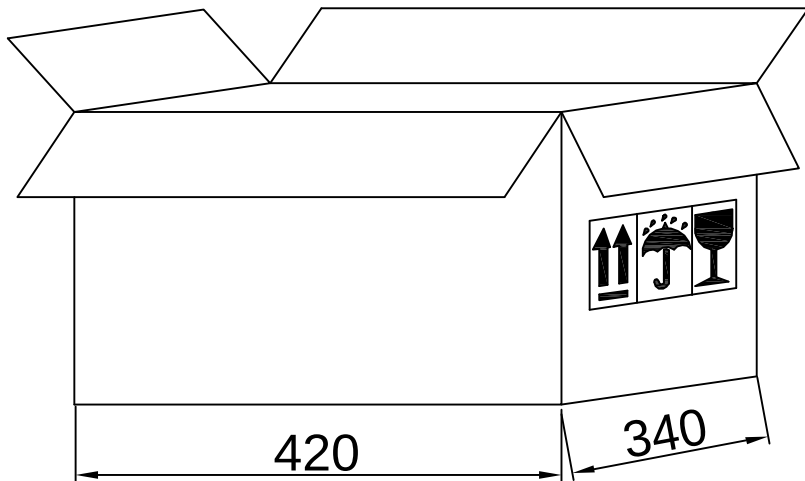
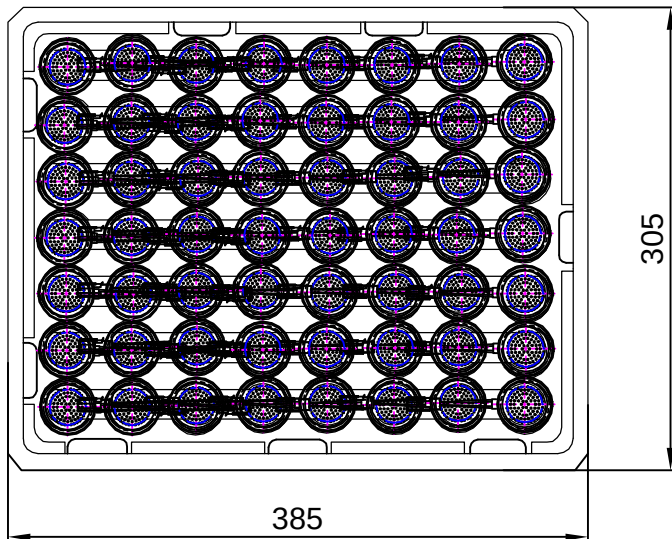
www.be-star.com wu@be-star.com

DRG NO: BS/TES01.1144A

Page:05 of 07

BDT3228W65M LF

4. Packing



Remark:
 56 pcs per tray
 Total 560pcs per carton
 Size: 420*340*310mm
 N.W 8.2KG G.W 9.2KG

				Date:	2012/09/29	BDT3228W65M LF
				Drawn by:	袁凯旋	
A	2012/09/29	袁凯旋		Checked by:	汪凤声	Speaker
Rev.	Date	Drawn	Note	Approved by:	王 平	
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TES01.1144A
www.be-star.com wu@be-star.com						Page:06 of 07

1

5. History Change Record

[illegible]

				Date:	2012/09/29	BDT3228W65M LF	
				Drawn by:	袁凯旋		
A	2012/09/29	袁凯旋		Checked by:	汪风声	Speaker	
Rev.	Date	Drawn	Note	Approved by:	王 平		
BESTAR ACOUSTICS CO.,LTD						DRG NO: BS/TES01.1144A	Page:07 of 07
www.be-star.com wu@be-star.com							

1