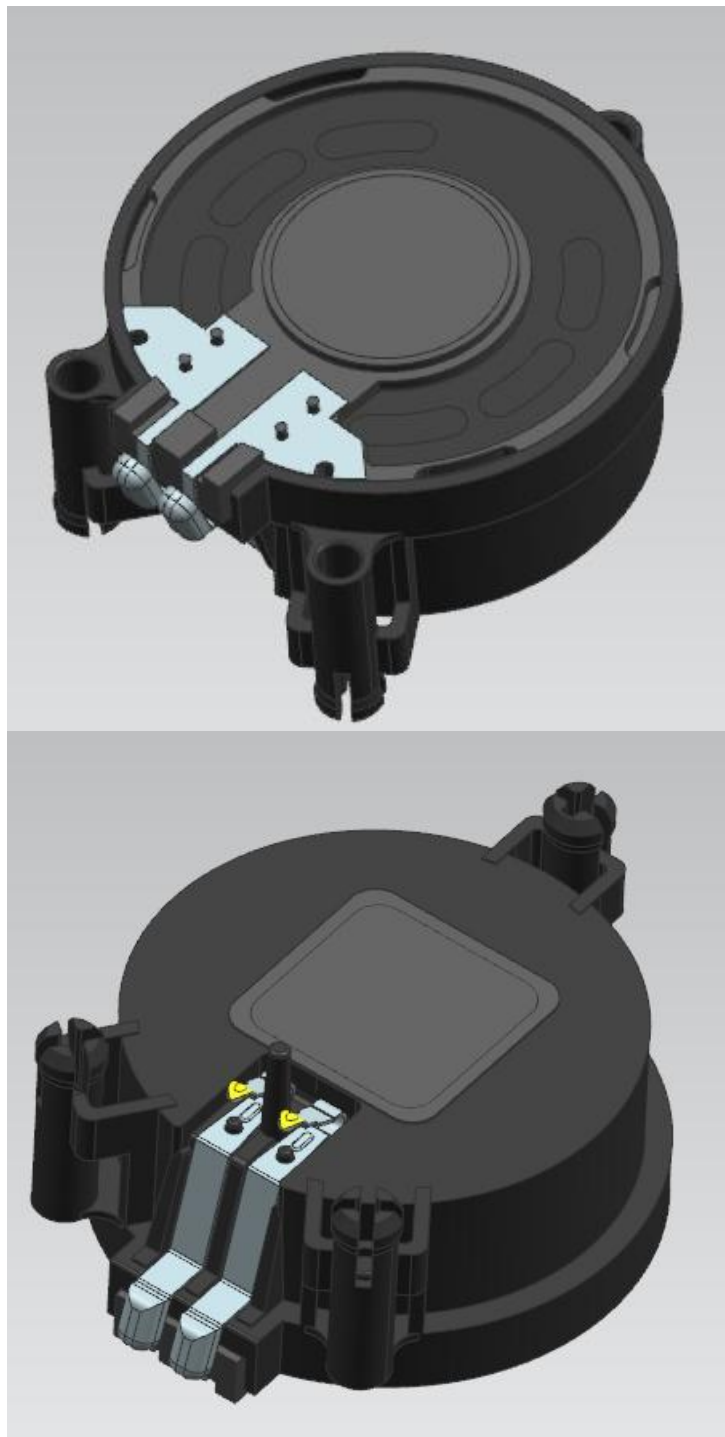


SPECIFICATION

BDT38-11-50H17-BOX





SPECIFICATION FOR AUTOMOTIVE SPEAKER

TOTAL PAGE 09

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RoHS

Customer		Model Name	BDT38-11-50H17-BOX
Customer P/N		Product No.	130132
Date	05 Mar 2018	Issue No.	BS/TES01.1700A
Page	01 of 09	Issue Date	2018.03.05

Approval:

- 1.Characteristics
- 2.Bill of Material
- 3.Drawing
- 4.Reliability Test
- 5.Packing
- 6.History Change Record

Drawn by	Checked by	Approved by	Customer approved
唐从坤	莫丽丽	徐金国	

BESTAR HOLDING CO.,LTD

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

Tel: +86 519 88222567 **Fax:** +86 519 88222551

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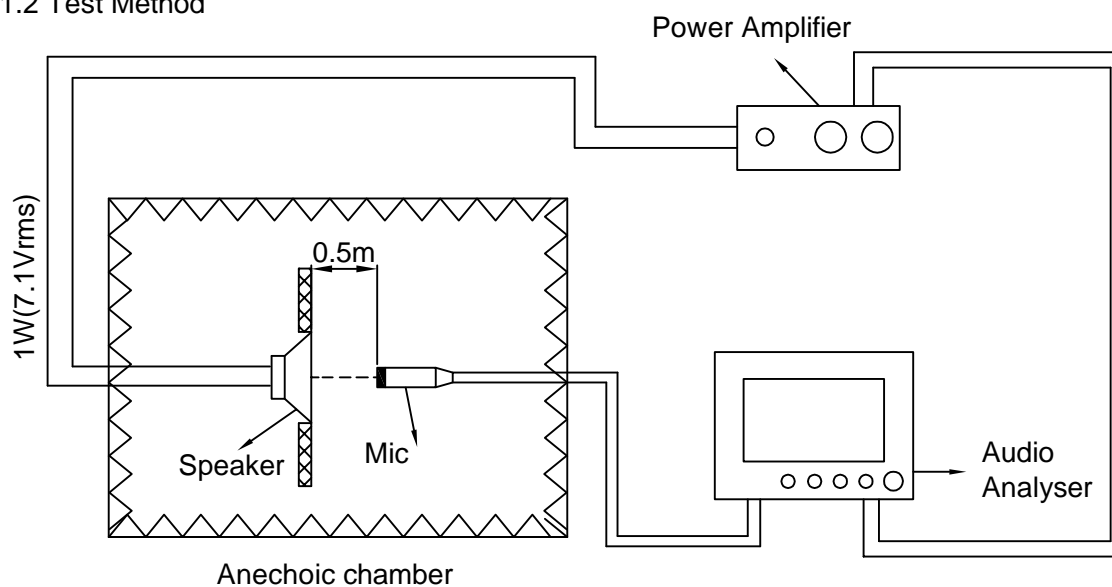
BDT38-11-50H17-BOX

1.Characteristics

1.1 Electrical and Mechanical Characteristics

No.	Item	Specifications
1.	Size	φ38*17mm
2.	Impedance at 1.5KHz	50±15% Ω
3.	Lowest Resonance frequency	600±20%Hz
4.	Effective frequency range	fo...15K Hz
5.	Rated input power	1w
6.	Maximum input power	1.2w
7.	Buzz & Rattle(at sine wave 7.1V)	must be normal between F0~15KHz
8.	SPL(1w,0.5m)	85±3dB (at 1K Hz)
9.	THD	≤10% (at 1KHZ、0.5m、1w)
10.	Weight	≈10.6g
11.	Operating temperature	-40... +85°C
12.	Storage temperature	-40.. +95°C

1.2 Test Method

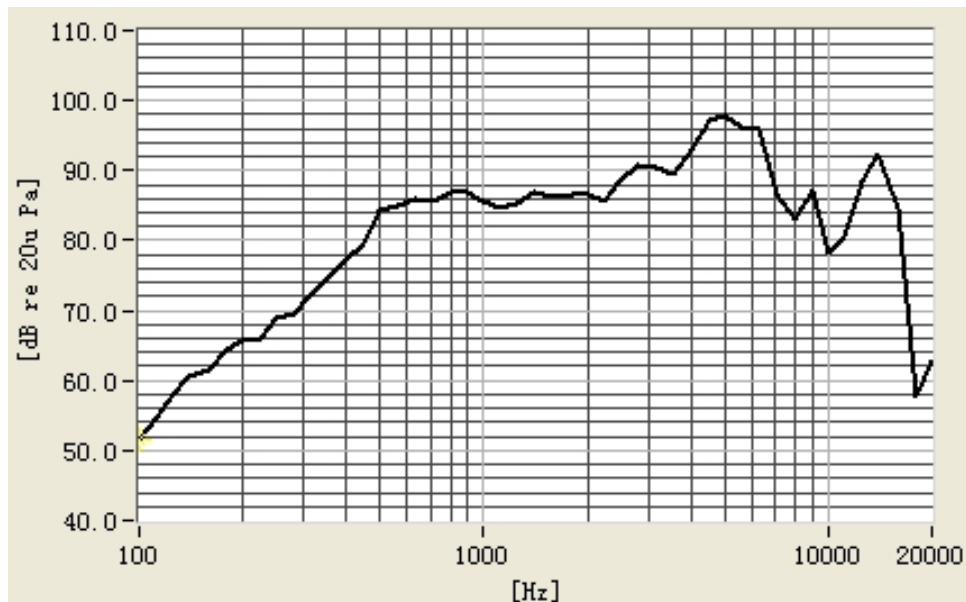


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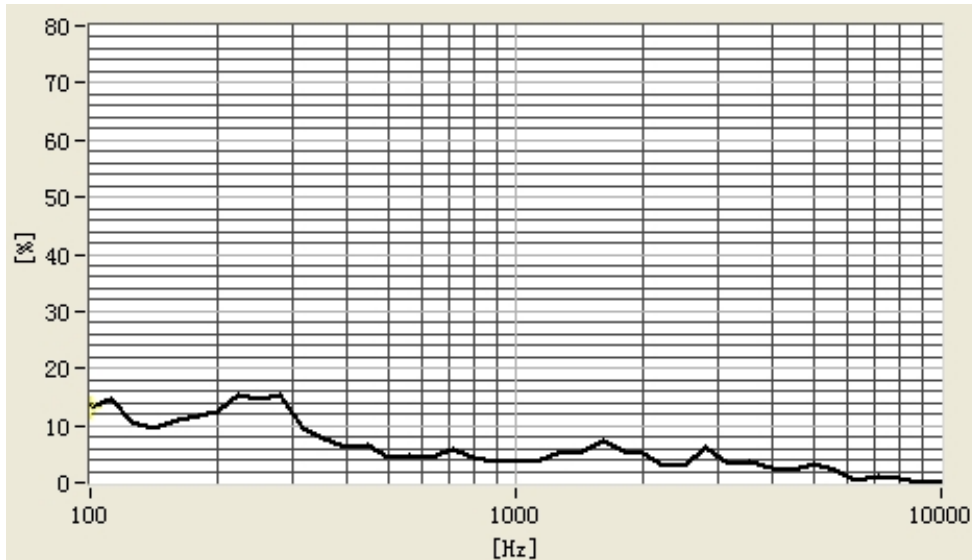
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BDT38-11-50H17-BOX

1.3 Fundamental (1W/0.5m SOUNDCHECK testing,the curve is smoothed 1/6rd of an octave)



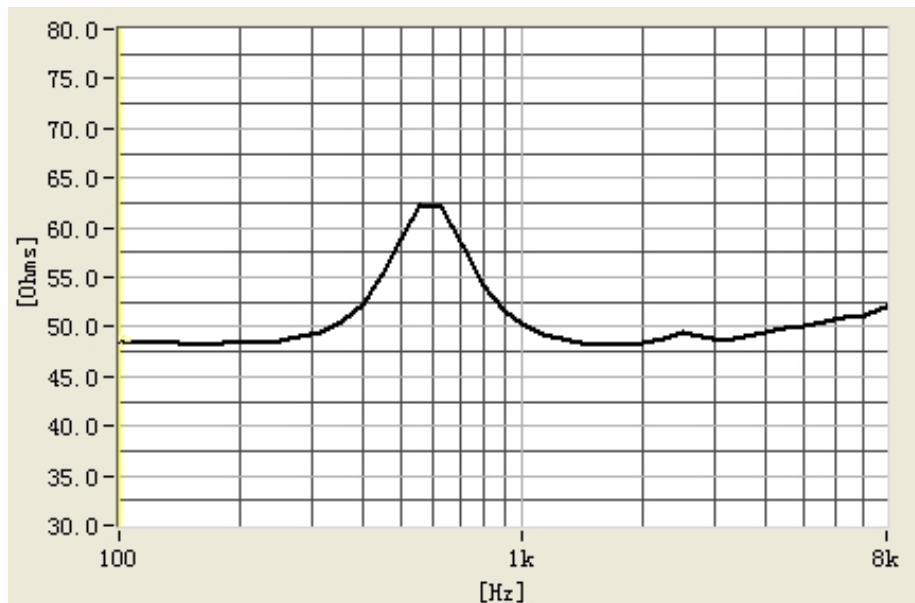
1.4 THD



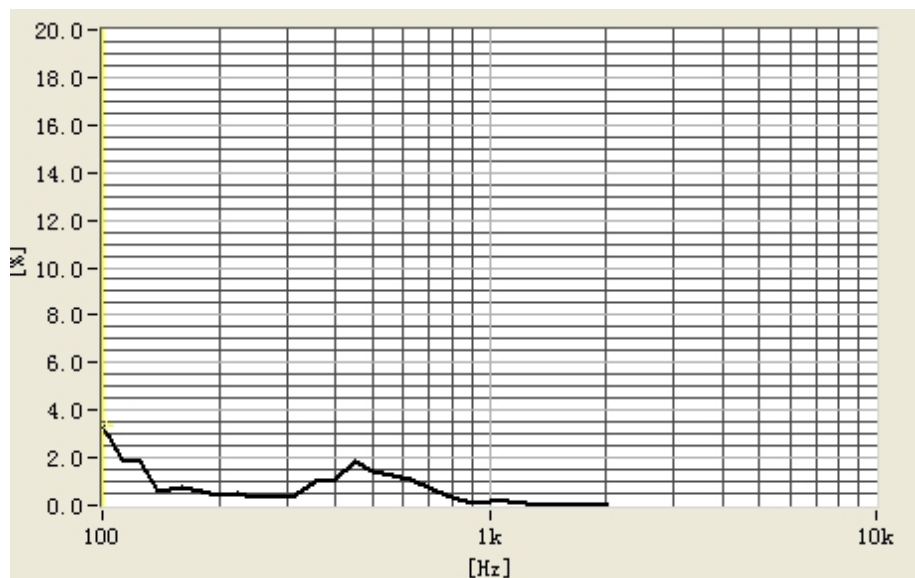
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BDT38-11-50H17-BOX

1.5 Impedance



1.6 Rub&buzz

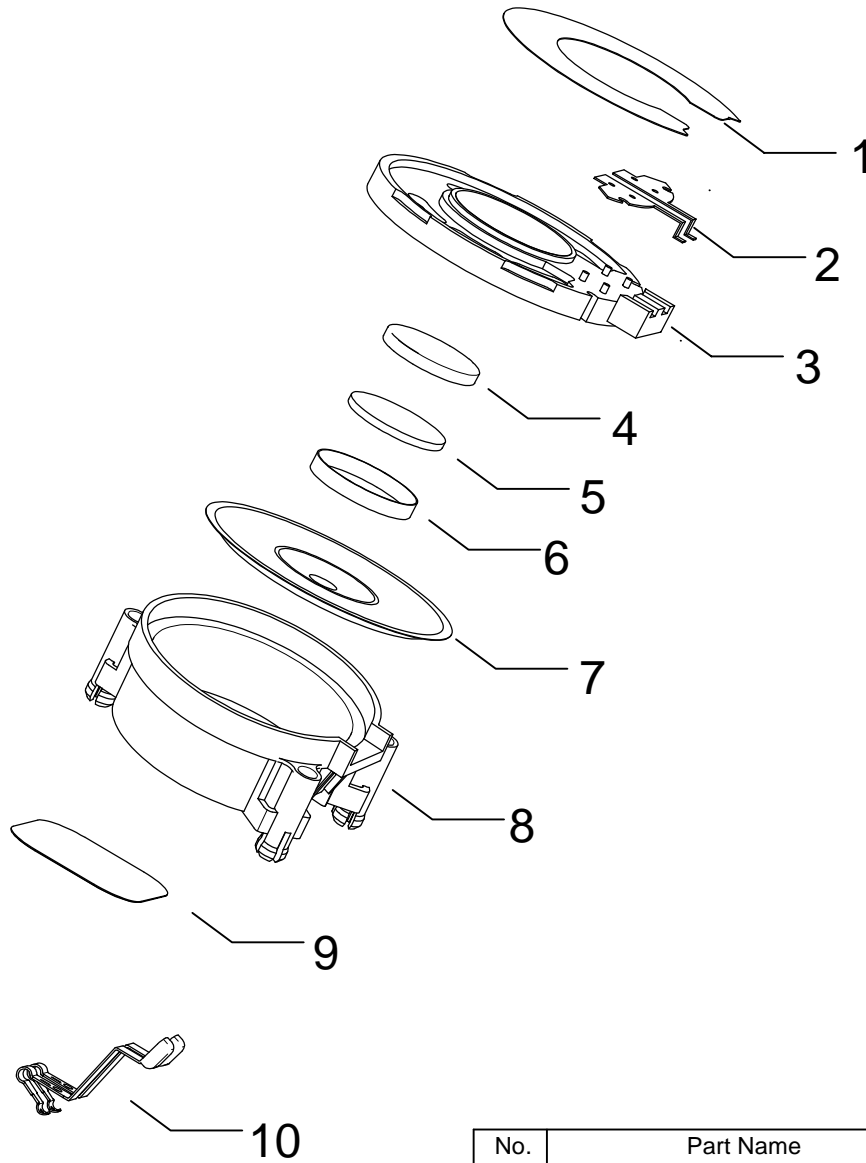


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BDT38-11-50H17-BOX

2.Bill of Material



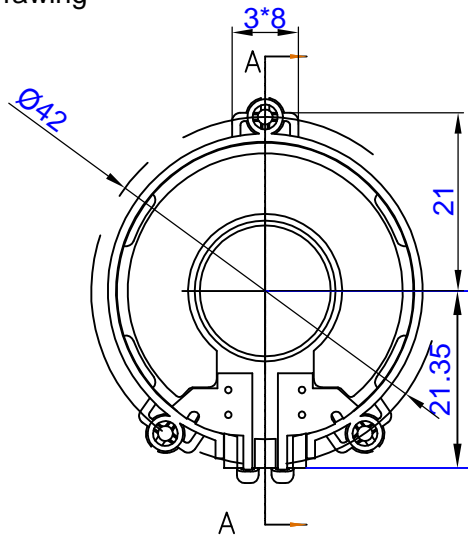
No.	Part Name	Material
1	Mesh	Cloth
2.	Pin	contact area plating Sn
3.	Frame	PBT+30%GF
4.	Magnet	NdFeB
5.	metal plate	SPCC
6.	Voice coil	Cu
7.	Diaphragm	PEI
8.	Housing	PC
9.	Mesh	Cloth
10.	Spring pin	Contact area plating gold

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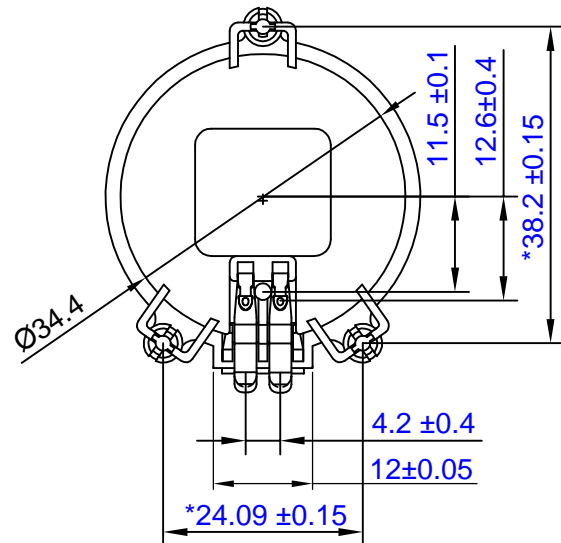
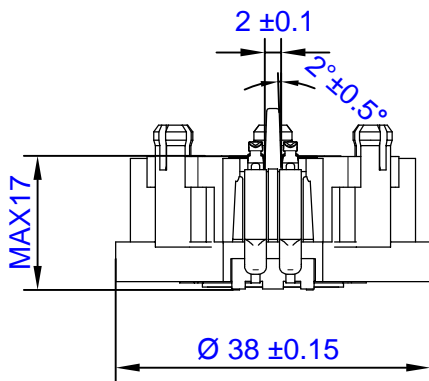
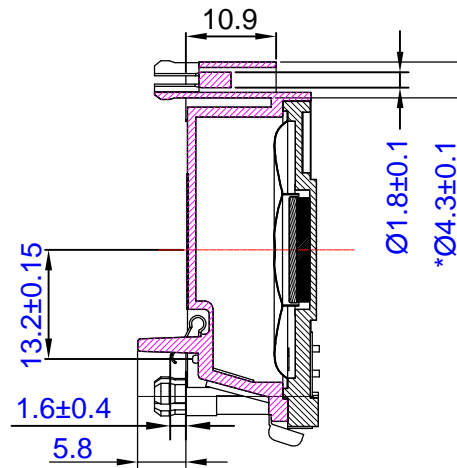
BDT38-11-50H17-BOX

3.Drawing

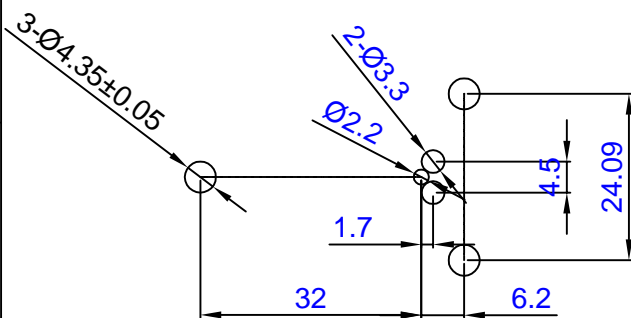
Tolerance of dimensions
without explicit
tolerance is ± 0.3
“*” size is important



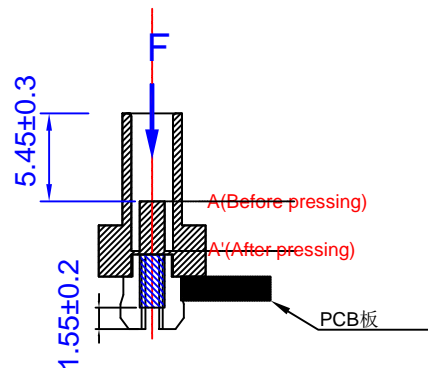
SECTION A-A



Hole pattern printed circuit board



Contact surface PCB: chemical NiAu, 4 μ m Ni / 0.1 μ m Au



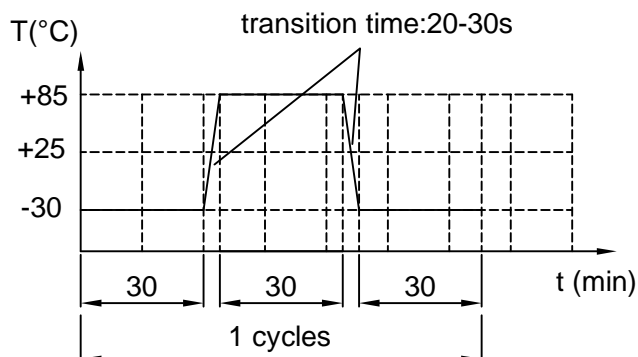
the cross-sectional view of pin

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BDT38-11-50H17-BOX

4. Reliability Test

4.1 Load Test	
Power (Nom)	1W(sine wave)
Duration	200hrs
4.2 High Temperature Test	
Temperature	+85±3°C
Duration	200hrs
4.3 Low Temperature Test	
Temperature	-40±3°C
Duration	200hrs
4.4 Damp Heat	
Temperature	40±3°C
Relative Humidity	90%-95%RH
Duration	200hrs
4.5 Temperature Cycle Test	
Cycles	10



4.6 Drop Test	
Height	1.5m
Drop face	thick board (20mm)
Times	18 (three times in each durement)

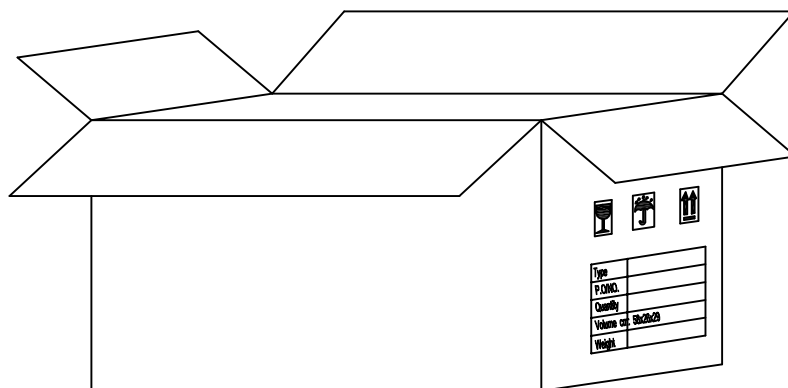
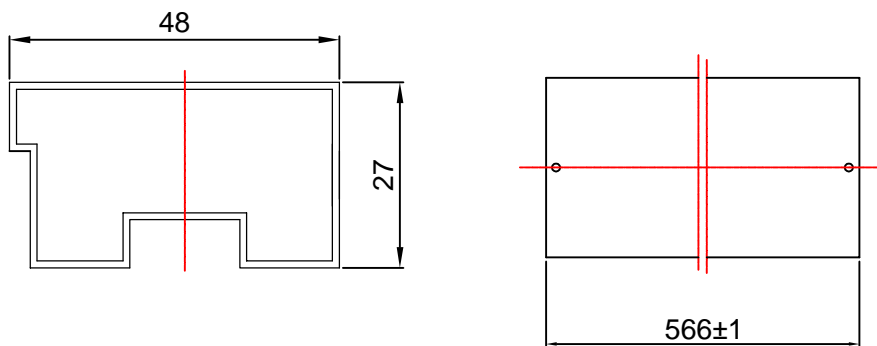
Notice:

- 1.Immediately after reliability test,the samples shall be stored under climatic conditions such as normally exist in ordinary rooms or laboratories.Unless otherwise noted,the recovery period shall be 4hrs at least before performance testing.
2. After reliability test ,all samples must be meet the requirements specified
- 3.Sensitivity difference at 0.8~2.0KHz shall be within ±3dB from initial value after test.

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BDT38-11-50H17-BOX

5. Packing



5.2 packing quantity

- 1) 14pcs per magazine
- 2) 50pcs magazine per carton
- 3) 700pcs per carton,
- 4) carton size: 58X26X29cm

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BDT38-11-50H17-BOX

6. History Change Record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
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