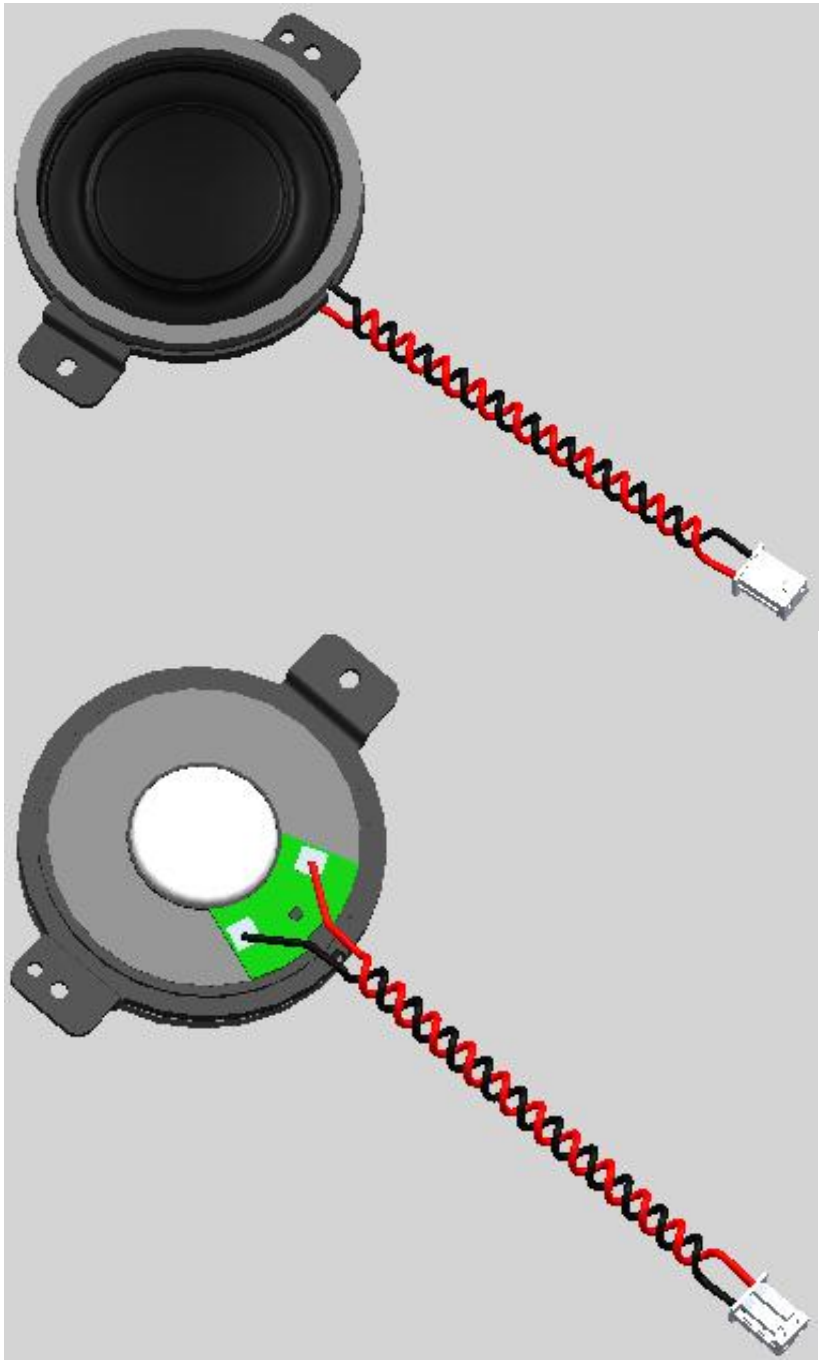
SPECIFICATION

BMS40-12B-04H5.0W085M



文件号：BS/QDTE045B

BeStar	SPECIFICATION FOR AUTOMOTIVE SPEAKER			
	TOTAL PAGE	10	www.bestargroups.com	RoHS

Customer		Model Name	BMS40-12B-04H5.0W085M
Customer P/N		Product No.	130138
Date	20 Dec. 2017	Issue No.	BS/TES01.1708A
Page	01 of 10	Issue Date	2017.12.20

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
毛钰麒	莫丽丽	徐金国	

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Tel: +86 519 88222567 ***Fax:*** +86 519 88222551
E-mail:wu@be-star.com ***http://www.bestargroups.com***

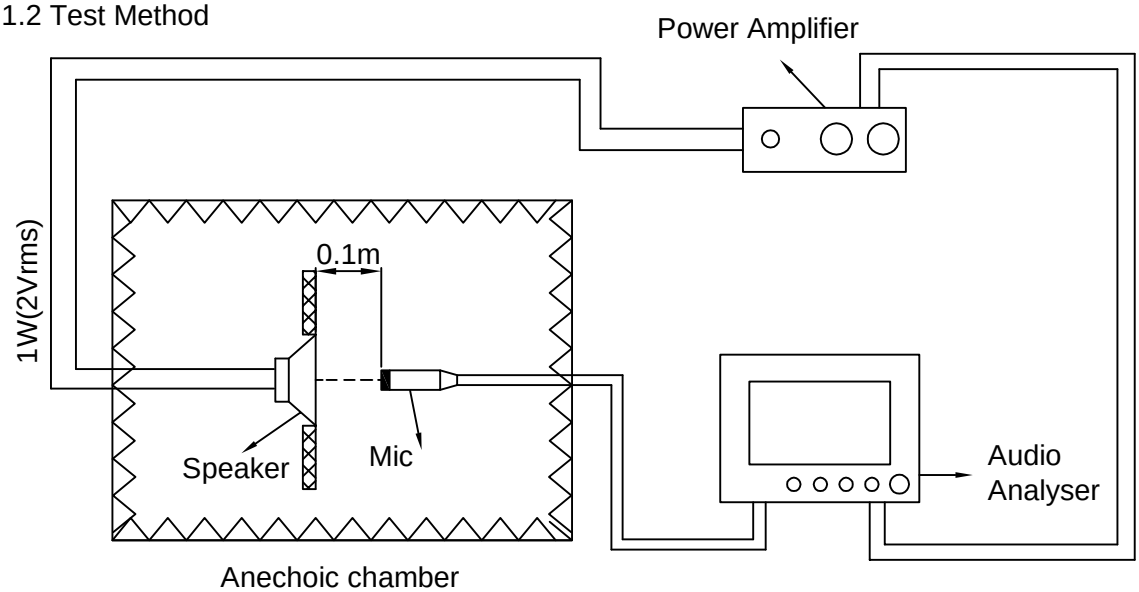
BMS40-12B-04H5.0W085M

1.Characteristics

1.1 Electrical and Mechanical Characteristics

No.	Item	Specifications
1.	Size	Ø40*7.0mm
2.	Impedance at 1.0KHz/1V	4±15% Ω
3.	Lowest Resonance frequency	500±15%Hz
4.	Effective frequency range	fo...5000Hz
5.	Rated input power	2w
6.	Maximum input power	2.5w
7.	Buzz & Rattle(at sine wave2.83V)	must be normal
8.	SPL(1W,1m) at 1K Hz	80±3dB
9	Polarity	Positive voltage to (+),
		the diaphragm move forward
10.	Frame Material	Plastic
11.	Weight	7.8g
12.	Operating temperature	-40...+85°C
13.	Storage temperature	-40...+85°C
14.	IP grade	IP52
15.	Lifetime :10 years under normal using 2.83V,1000Hz	

1.2 Test Method

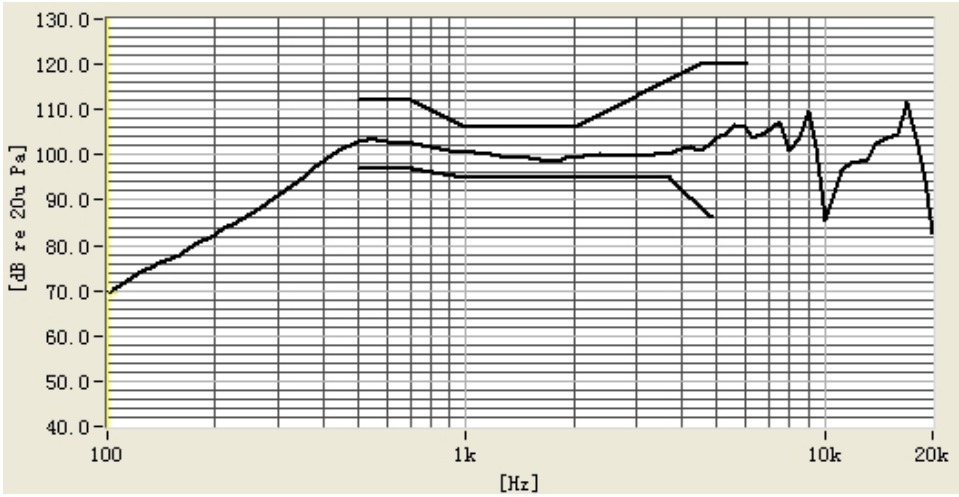


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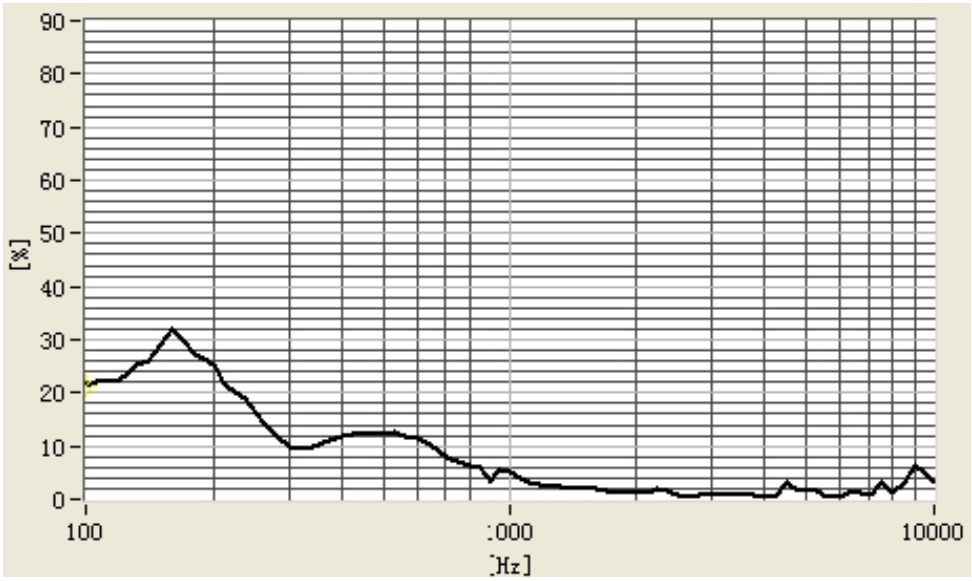
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BMS40-12B-04H5.0W085M

1.3 Fundamental (1W/0.1m SOUNDCHECK testing)



1.4 THD (1W/0.1m SOUNDCHECK testing)

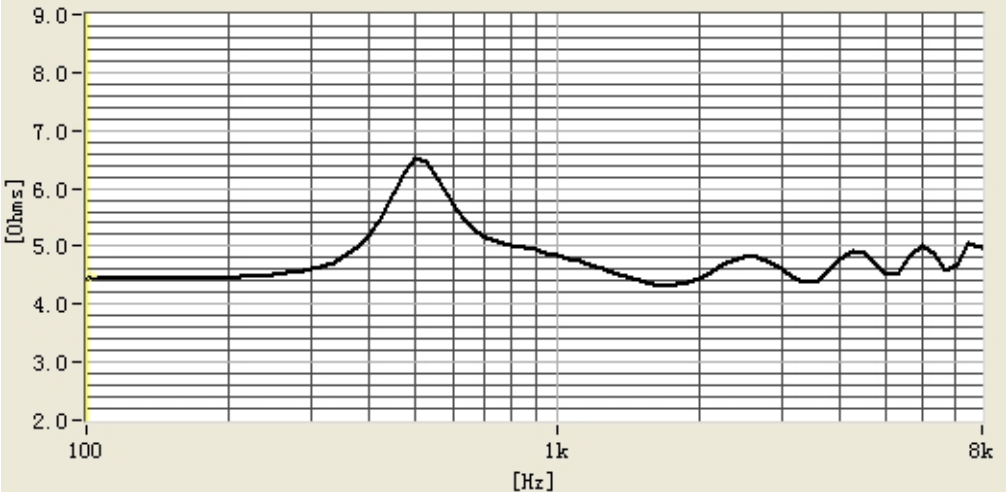


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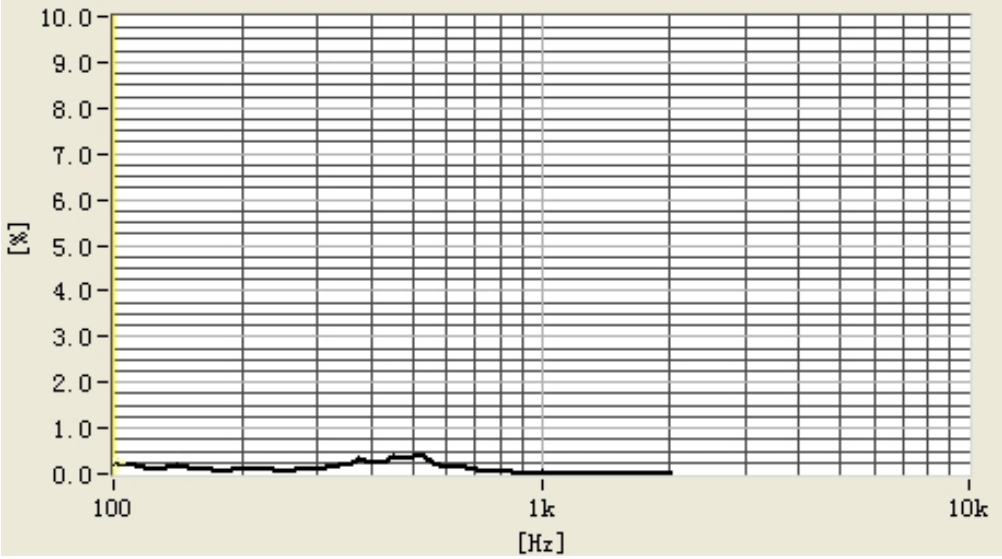
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1.5 Impedance (1W/0.1m SOUNDCHECK testing)



1.6 Rub&buzz (1W/0.1m SOUNDCHECK testing)

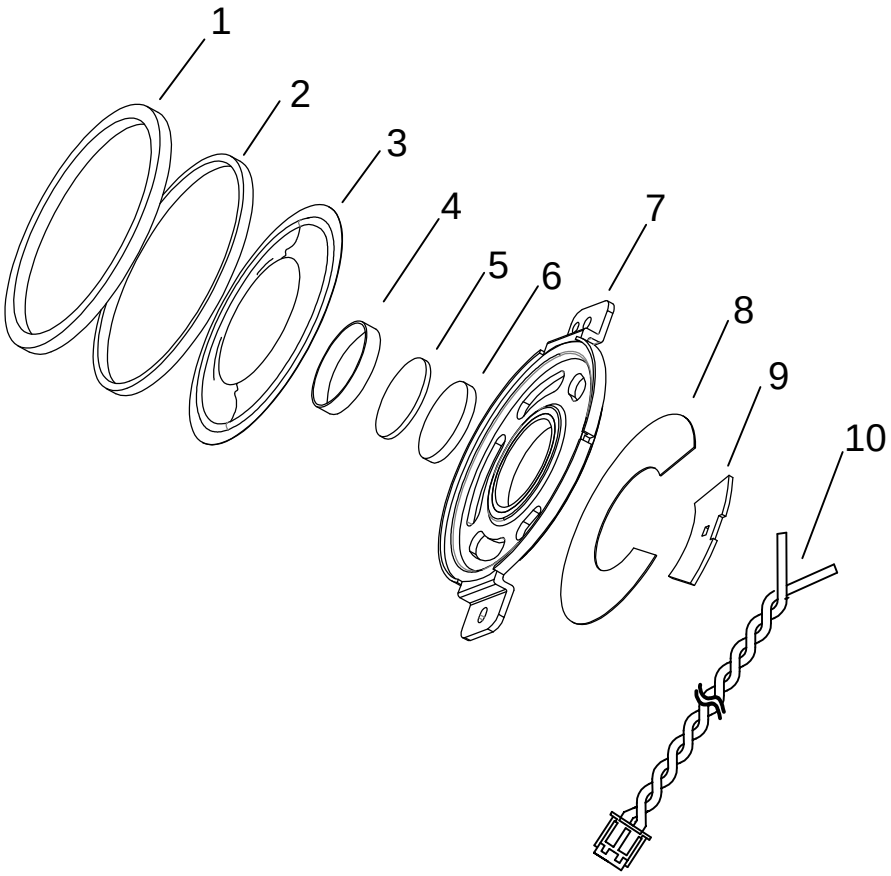


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BMS40-12B-04H5.0W085M

2.Bill of Material



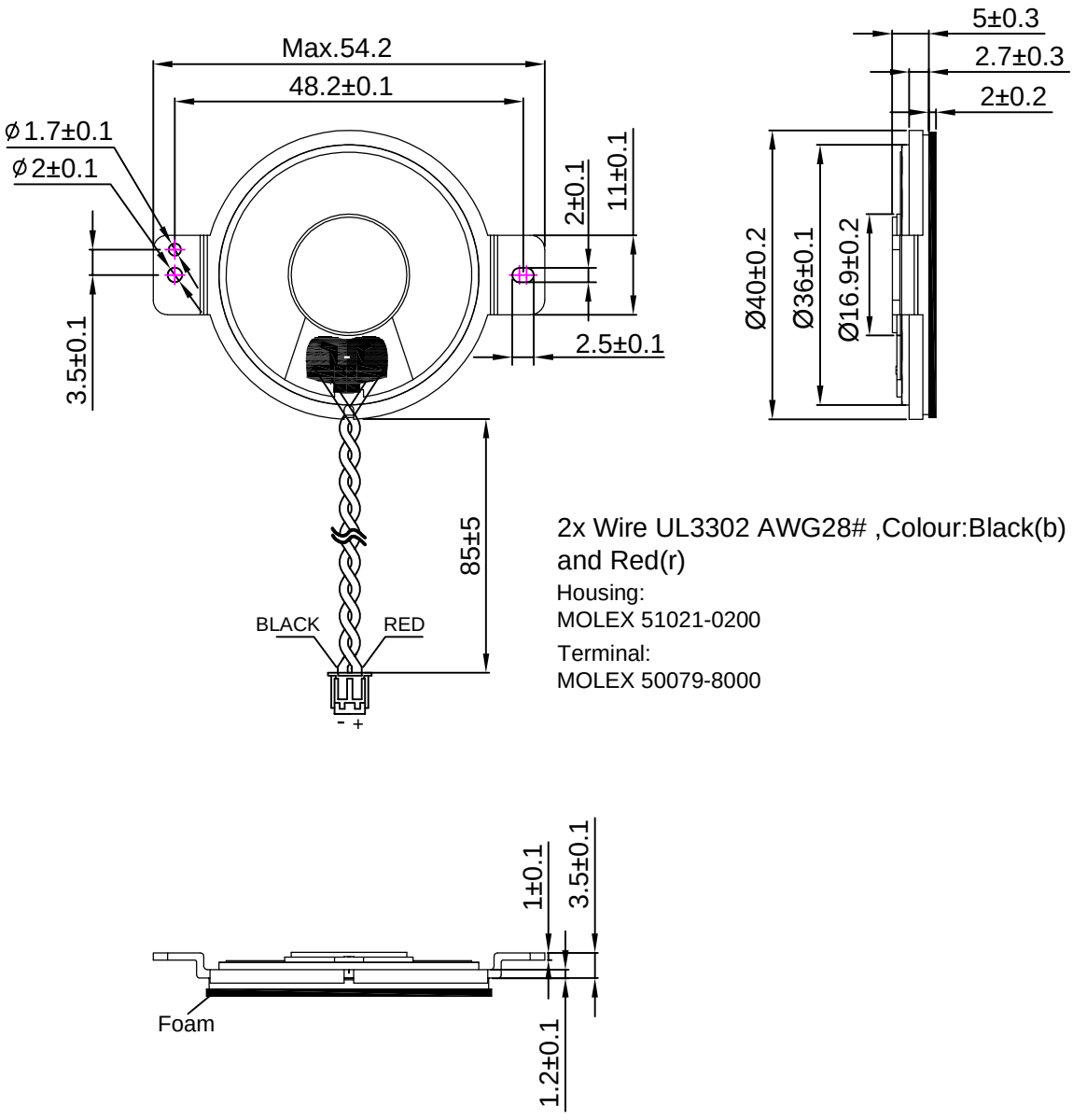
No.	Part Name	Material
1.	Rubber pad	EPDM
2.	Gasket	PA66
3.	Membrane	PEN
4.	Voice coil	Cu
5.	Up Plate	SPCC
6.	Magnet	NdFeB
7.	Frame	PBT+30GF
8.	Dustproof Sheet	Black non-woven
9.	PCB	Ethoxyline+Cu
10.	Connector wire	Cu

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BMS40-12B-04H5.0W085M

3.Drawing



2x Wire UL3302 AWG28# ,Colour:Black(b) and Red(r)

Housing:
MOLEX 51021-0200

Terminal:
MOLEX 50079-8000

unit:mm

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4. Reliability Test

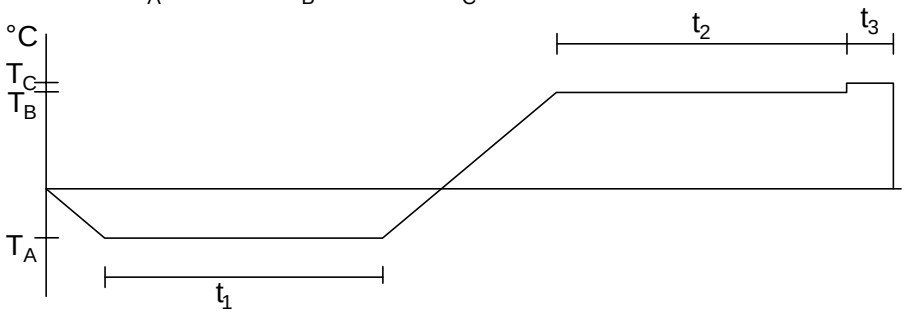
4.1 Load Test

Power	2W (sine wave)
Duration	96hrs

4.2 High/low temperature storage Test

t_1=48h t_2=48h t_3=1h

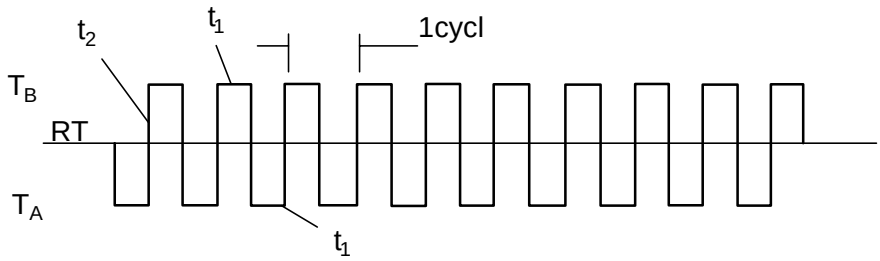
T_A=-40°C T_B=+85°C T_C=+90°C 1°C/min



4.3 Temperature shock Test

t1=2h, t2<10s, TA=-40℃, TB=+85℃,

Cycle 100

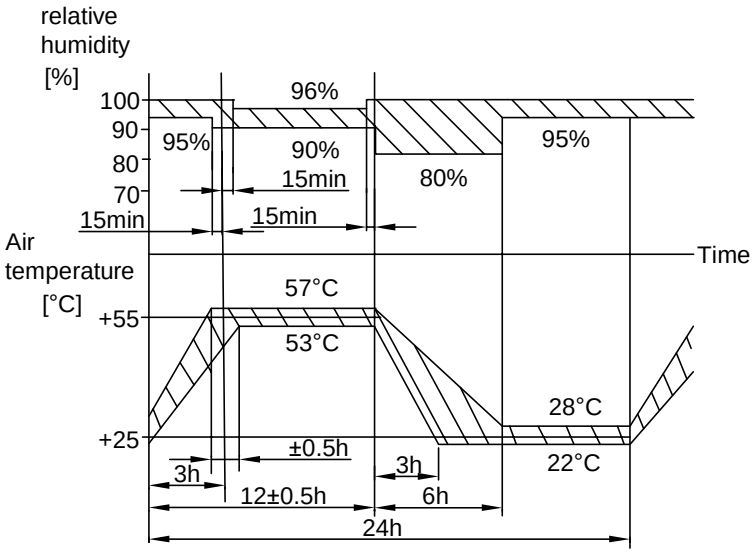


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4.4 Temperature humidity Test

1Cycle=24h Test 6 Cycle



4.5 Salt spray Test

Test temperature 35℃

Brine density NaCl 5%

Duration 48hrs

4.6 Drop Test

Height 100cm

Direction x,y&z 3 axis

Time 6s

Dropped to 20mm thickness wooden boad contained packing

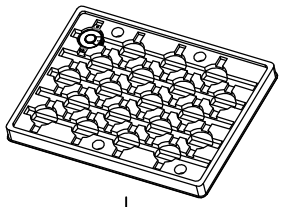
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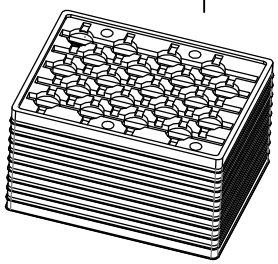
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5. Packing

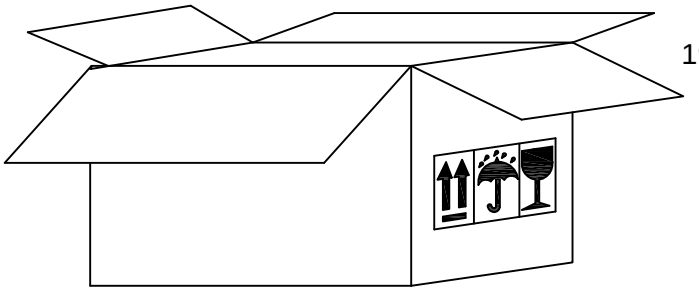
5.1 Packing Drawing



ESD packing



16 pcs per tray,13 trays
16x12=192pcs



192x2=384 pcs per carton

5.2 packing quantity

1) Carton size:524x350x255mm
2) 16 pcs trays per carton
3) 192x2=384 pcs per carton

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6. History Change Record

version No.	Change Items		Date	Drawn	Approved
	Before	After			
A			2017.12.20	毛钰麒	徐金国

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Speaker

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