

	SPECIFICATION			
	FOR ELECTRO-MAGNET DYNAMIC MICROPHONE			
	TOTAL PAGE	06	www.bestargroups.com	RoHS

Customer		Model Name	BCM9750ULF-47-J50 LF
Customer P/N		Product No.	195149
Date	7 Oct.2014	Issue No.	BS/TEM01.450A
Page	01 of 07	Issue Date	2014.10.07

Approval:

- 1.Characteristics
- 2.Drawing
- 3.Measurement Circuit
- 4.Reliability Test
- 5.Packing
- 6.History change record

Drawn by	Checked by	Approved by	Customer approved

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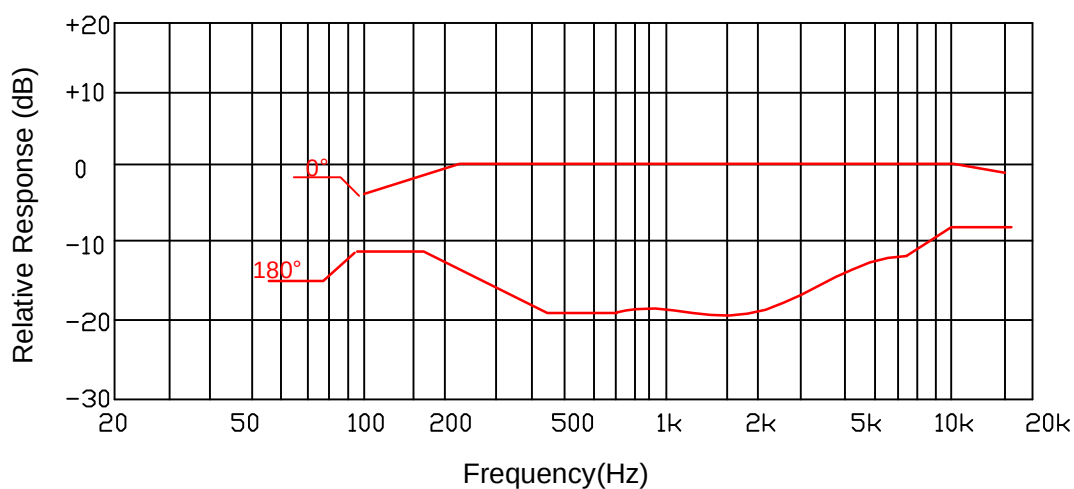
BCM9750ULF-47-J50 LF

1. Characteristics

Test Condition (Vs=2V RL=2.2K Ω Ta=20°C R.H.=65%)

No.	Item	Specifications
1	Sensitivity	-47 $\pm$ 3dB(0dB=1V/Pa,1kHz)
2	Frequency Response	100Hz-10kHz
3	Current Consumption	0.5mA Max.
4	Directional	unidirectional
5	S/N Ratio	more than 58dB
6	Standard Operating Voltage	2V
7	Operating Voltage	1V~10V
8	Sensitivity reduction	within -3dB at 1.5V
9	Distortion	2%
10	Storage Temperature	-40°C to +70°C
11	Operating Temperature	-30°C to +60°C

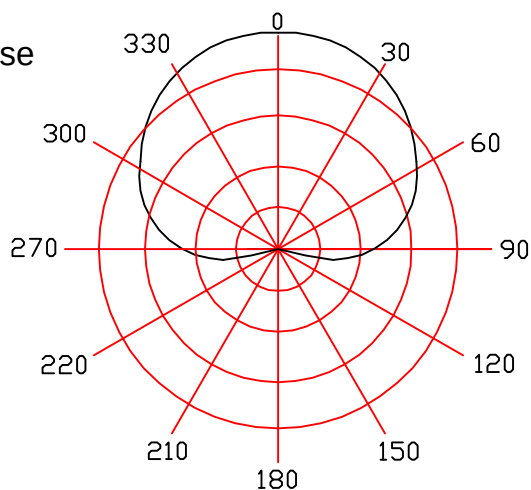
★Frequency Resonse Curve



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		6	5	4	3	2	1

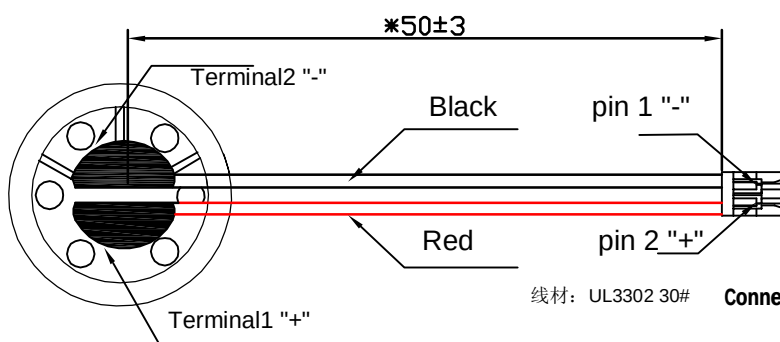
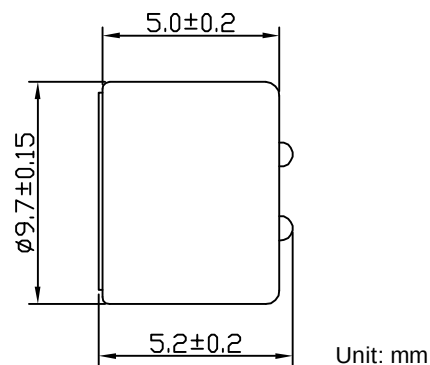
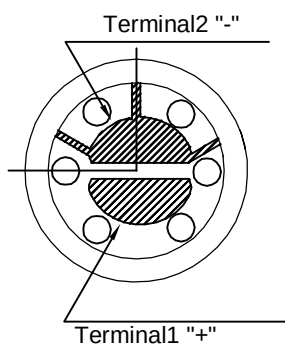
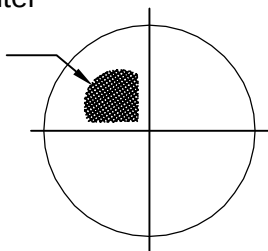
BCM9750ULF-47-J50 LF

★Angular Response



2. Drawing

filter



线材: UL3302 30#

Connector: JST

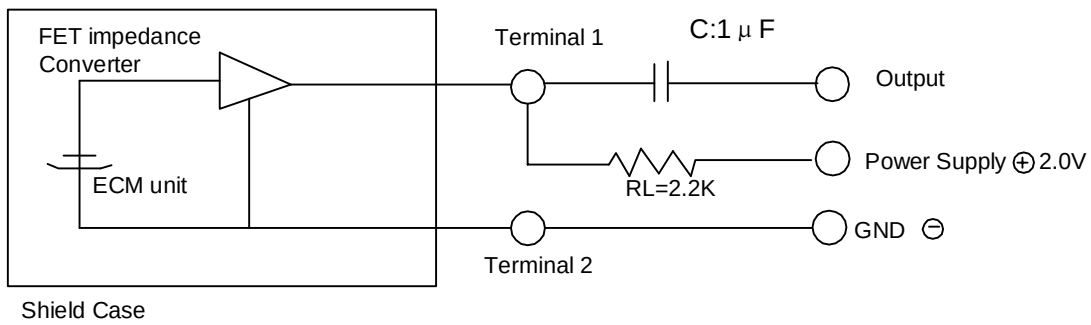
Housing: GHR-02V-S

Crimp pins: SSSL-002T-P0.2

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BCM9750ULF-47-J50 LF

3. Measurement Circuit:



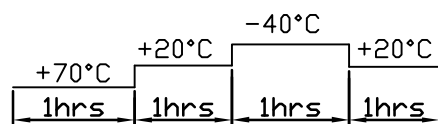
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4. Reliability Test

- 4.1 High temp.life test
 Temperature + 70 °C
 Duration 100hrs
- 4.2 Low temp.life test
 Temperature -40 °C
 Duration 100hrs
- 4.3 Temperature cycle test
 Cycles 10



- 4.4 Humidity Test
 Temperature +40 °C
 Relative Humidity 90~95%
 Duration 48hrs

Tests above should be measured after leaving normal temperature for 6hrs.

- 4.5 Vibration Test
 Vibration Frequency 10~55Hz
 Amplitude 1.52mm/min
 Direction 3(x.y&z)
 Duration 2hrs each cycle(total 6 hrs)
- 4.6 Drop test
 Height 1m
 (Dropped to 20mm thick hardwood board without packing.)
 Direction 3
- 4.7 Soldering Heat Shock
 Temperature 260 ±5 °c
 Duration 2 ±0.5 sec
- 4.8 Terminal Mechanical Strength
 Strength 1kg
 Duration 1 min

Notice:

All specifications must be satisfied in this condition.

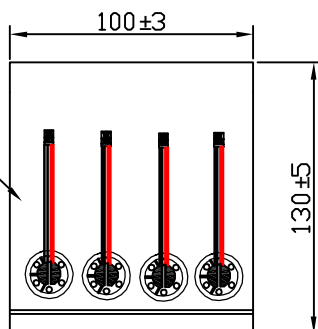
Sensitivity :Allowable deviation within ±3dB from initial sensitivity.

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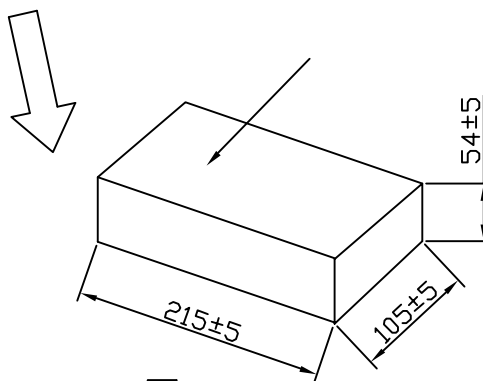
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5. Packing

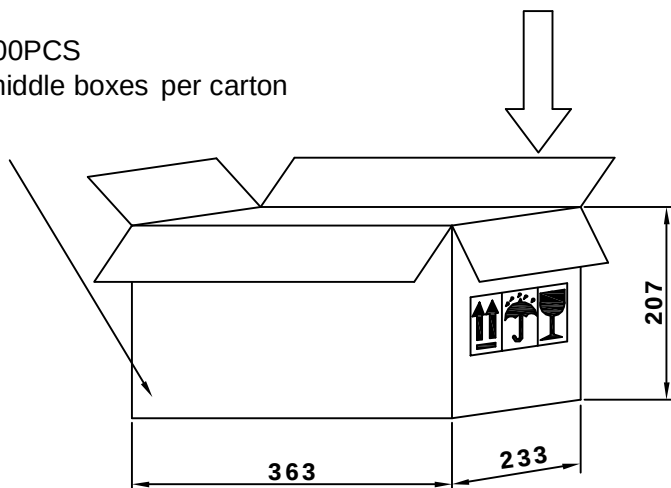
100PCS
per anti-static bag



500 PCS
5 anti-static bags per middle box



4500PCS
9 middle boxes per carton



Remark:
100 pcs per anti-static bag
5 anti-static bags per middle box
9 middle boxes per carton
Total 4500pcs per carton
Size: 363×233×207(mm)

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6. History change record

[illegible]

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