



# SPECIFICATION

## Vibration Motor

TOTAL PAGE 06 <http://www.bestargroups.com> RoHS

Customer		Model Name	BMV0619H3.2
Customer P/N		Product No.	210817
Date	23 Mar. 2016	Issue No.	BS/TET01.035A
Page	01 of 06	Issue Date	2016/03/23

### Approval:

- 1.Characteristics
- 2.Dimension
- 3.Reliability Test
- 4.Packing
- 5.Notice
- 6.History change record

Drawn by	Checked by	Approved by	Customer approved
常琦	陶红仲	徐金国	

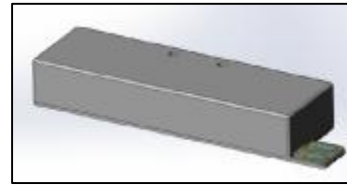
### **BeStar Holding Co., Ltd.**

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# BMV0619H3.2



## 1.Characteristics

### 1.1Operating Conditions

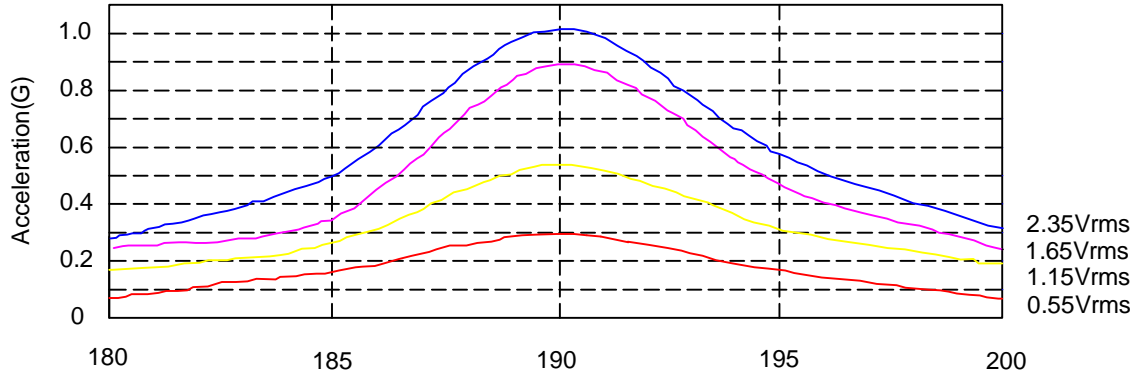
Parameter	Specifications
Operation driver	Auto resonance driver DRV2604
Rated Voltage	2.35Vrms
Rated Power	318mW
Frequency	190Hz±10Hz
Internal Resistance	18±2Ω
Acceleration (at 2.35Vrms)	≥0.9 Grms@100g jig
Rise time(0%-90% of Acceleration)	< 130ms
Break time(100%-10% of Acceleration)	< 300ms
Magnetic Flux Limits	≤500 gauss(0.7mm from crust)
Noise Output (at 10cm,2.35Vrms)	Max.42dBA
Moving mass	1.8±0.2g
Displacement	0.55 <sup>+0.15</sup> <sub>0</sub> mm
Insulation resistance(at 100V DC)	Min.10MΩ(between terminal and housing)
Weight	about 2.9g
Operating Temperature	-20...+70°C(0%~95%RH)
Storage Temperature	-40...+80°C(0%~95%RH)
NOTE:All the date tested should base on condition of temperature 25±2°C and hunidity 65±20%RH,and also can be tested at the range of temperature 5~35°C and humidity 45~85%RH if there is on influence to the judgment.	

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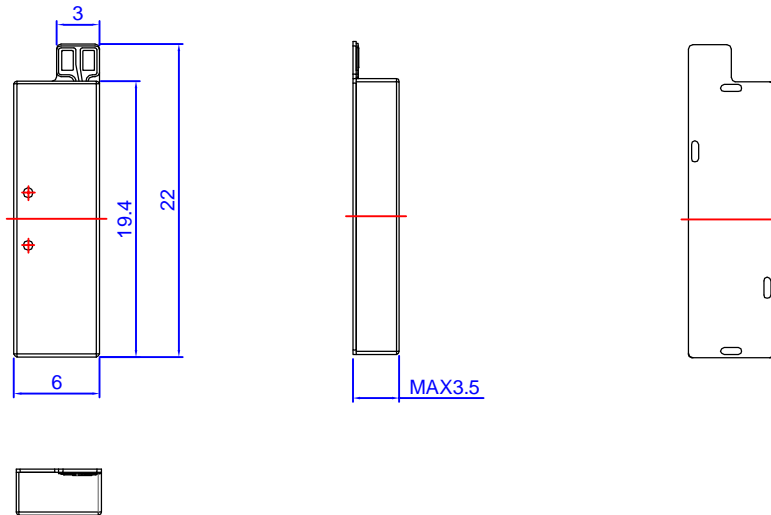
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A	2016/03/23	常琦		Checked by:	陶红仲	Vibration Motor	
Rev.	Date	Drawn	Note	Approved by:	徐金国		
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## 1.2 Acceleration characteristics



## 2. Dimension



Unit: mm Tolerance: ±0.2

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# BMV0619H3.2

## 3. Reliability test

### 3.1 load test

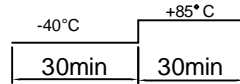
Power  
Duration

Rated Voltage  
240h(10x0.5s on/0.5s off to10x1s on/0.5s off to 5s on/2s off )

### 3.2 Temperature cycle test

Cycles

240



### 3.3 Short-term life test

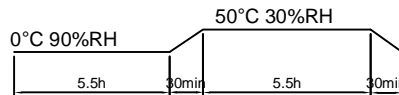
Power  
Temperature  
Duration

Rated Voltage  
95°C, 20%RH  
6h(0.5s on/0.5s off)

### 3.4 Humidity cycle life test

Power  
cycles

Rated Voltage  
4(10x0.5s on/0.5s off to10x1s on/0.5s off to 5s on/2s off )



### 3.5 High temperature test

Temperature  
Duration

+ 85°C/85%RH  
168hrs

### 3.6 Low temperature test

Temperature  
Duration

-40°C  
168hrs

### 3.7 Drop test

Height  
Direction

1.5m (to concrete floor)  
one time in each of six planes,eight arrises, four angle

### 3.8 Extended drop test

Height  
Direction

1.8m (to concrete floor)  
one time in each of six planes,eight arrises, four angle

Notice: all these tests above should be measured after leaving normal temperature for 4hrs.

After reliability test,all samples must be meet the requirement as below:

- 1)Acceleration≥0.8 Grms
- 2)Rise time < 160ms
- 3)Break time < 350ms
- 4)Noise ≤50dBA

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# BMV0619H3.2

## 4. Packing

**TBD**

## 5. Notice

5.1 The products mustn't be washed

### 5.2 Storage Condition

The products should be stored in the room ,where the temperature/humidity is stable. And avoid such places where there are large temperature changes. Please store the products at the following conditions:

Temperature: -10 to + 40 °C Humidity: 15 to 85% R.H.

### 5.3 Expire Date on Storage

Expire date (Shelf life) of the products is six months after delivered under the conditions of a sealed and an unopened package. Please use the products within six months after delivered.

If you store the products for a long time (more than six months), use carefully because the products may be degraded in the solderability and/or rusty. Please confirm solderability and characteristics for the products regularly.

### 5.4 Notice on Product Storage

(1) Please do not store the products in a chemical atmosphere (Acids, Alkali, Bases, Organic gas, Sulfides and so on), because the characteristics may be reduced at quality, and/or be degraded in the solderability due to the storage in a chemical atmosphere.

(2) Please use the products immediately after the package is opened, because the characteristics may be reduced at quality, and/or be degraded in the solderability due to storage under the poor condition.

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