



SPECIFICATION

Vibration Motor

TOTAL PAGE

07

<http://www.bestargroups.com>

RoHS

Customer		Model Name	BMV1003H02
Customer P/N		Product No.	210813
Date	16 May. 2016	Issue No.	BS/TET01.031A
Page	01 of 07	Issue Date	2016/05/16

Approval:

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

Drawn by	Checked by	Approved by	Customer approved
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文件号: BS/QDTE045B

BMV1003H02



1.Characteristics

1.1Operating Conditions

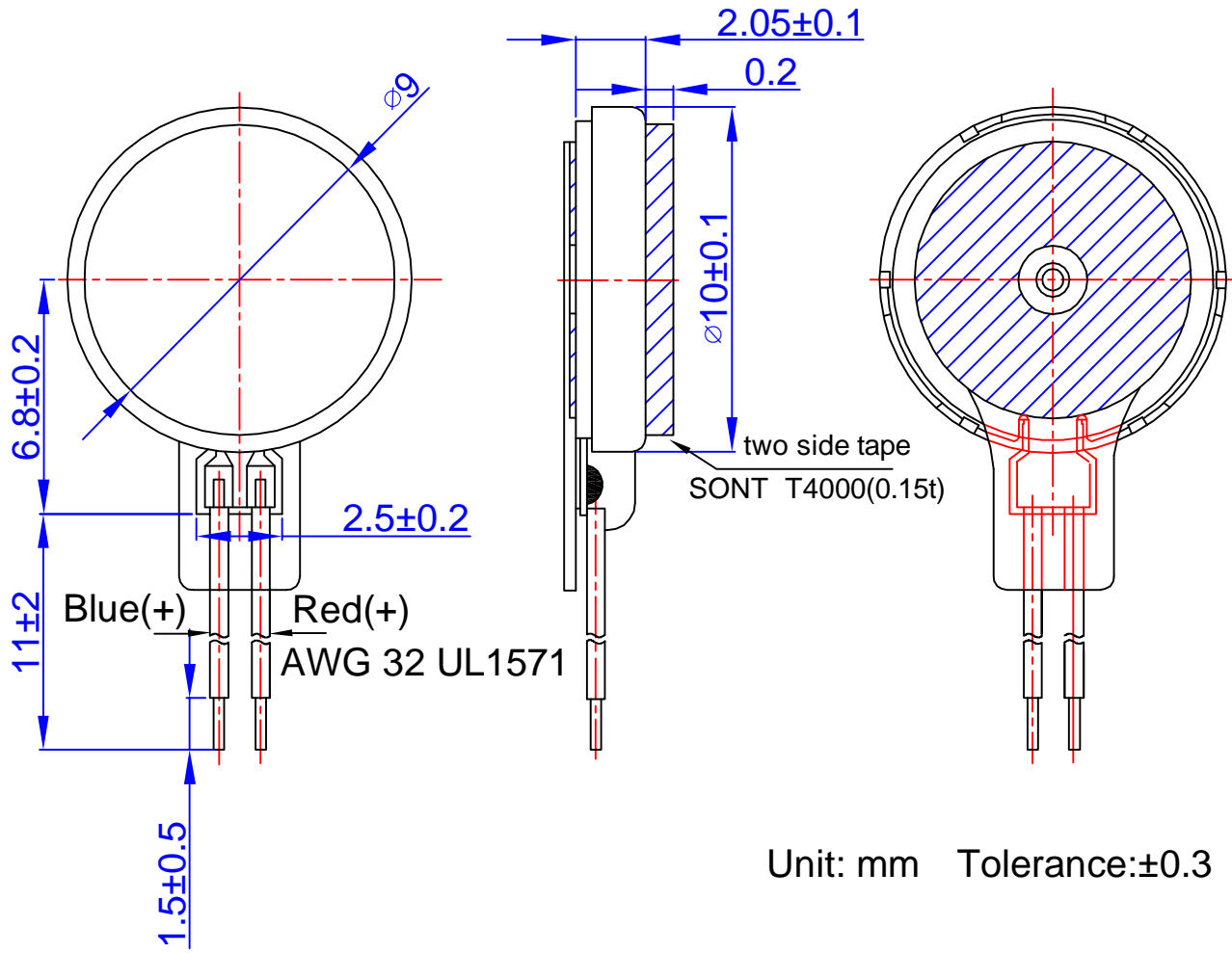
	Parameter	Specifications
1.	Rated Voltage	3VDC
2.	Operating Voltage	2.7~3.3VDC
3.	Rotation	CW(clockwise) or CCW (counter clockwise)
4.	* Current at 25℃	Max. 90mA
5.	* Rated Speed	Min. 9000 r/min
6.	Starting Current	Max. 120mA
7.	Starting Voltage	Max. 2.3VDC
8.	Terminal resistance at 25℃	31±15%Ω (single posture)
		59±15%Ω (compose posture)
9.	**Insulation resistance	Min.10MΩ
10.	Bracket Deflection strength	Min. 9.8N
11.	Mechanical noise	Max. 50dB
12.	Operating Temperature	-20...+60℃
13.	Storage Temperature	-30...+70℃
*Value applying 3VDC		
**At DC 100V between lead wire and case.		

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A	2016/05/16	常琦		Checked by:	陶红仲	Vibration Motor
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2. Dimension



Unit: mm Tolerance: ± 0.3

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3. Reliability test

3.1 Life test

Power
Duration

Rated voltage
2s on, 2s off, as 1 cycle;
total 50,000 cycles

Motors shall be approved as specified in item A.

3.2 Low temperature test

Temperature
Duration

- 30° C
96hrs

Motors shall be approved as specified in item B.

3.3 High temperature test

Temperature
Duration

+70° C
96hrs

Motors shall be approved as specified in item B.

3.4 Humidity test

Temperature
Duration

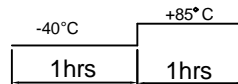
+40° C 95%RH
96hrs

Motors shall be approved as specified in item B.

3.5 Temperature cycle test

Cycles

15



Motors shall be approved as specified in item B.

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

3.6 Vibration Test

Vibration Frequency
Amplitude
Duration x,y&z directions

10~55Hz
1.5mm
30min

Motors shall be approved as specified in item B.

3.7 Drop test

Height
Direction

1.5m (to concrete floor)
2times in each of six planes

Motors shall be approved as specified in item B.

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Judgments after Reliability test

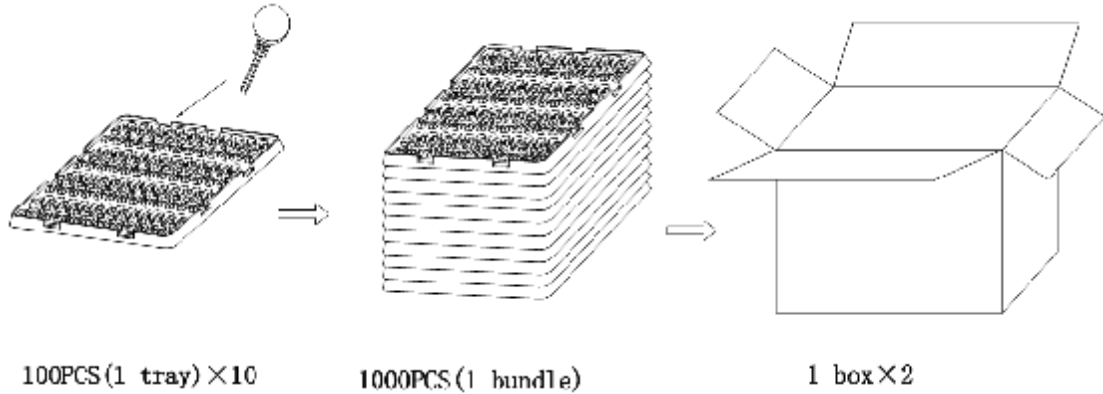
Item	Requirements
A	1)Rated speed: No lower than -30% of initial data No more than +50% of initial data 2)Rated current: No lower than -30% of initial data No more than +50% of initial data 3)Terminal resistance: No lower than -15% of initial data No more than +15% of initial data 4)Starting voltage : Max. 2.5DC 5)Insulation resistance:Min. 10MΩ
B	1)Rated speed: No lower than -20% of initial data No more than +20% of initial data 2)Rated current: No lower than -20% of initial data No more than +20% of initial data 3)Terminal resistance: No lower than -15% of initial data No more than +15% of initial data 4)Starting voltage : Max. 2.5DC

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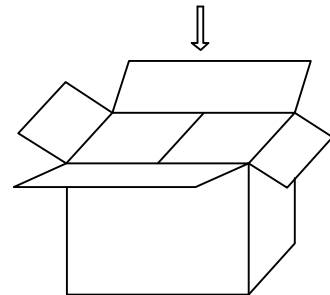
4. Packing



Packing Quantity :

4000pcs/CTN:45*28*20CM

6000pcs/CTN:45*28*30CM



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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6. History change record

[illegible]

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