

TEST REPORT



Report No. : 18-032943-02-1

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1. Client

Name : DAJIM INC.

Address : RM#107, 209 Dong, #50, Yutongdanji 1-ro, Gangseo-gu, Busan, Republic of Korea

Date of Receipt : 2018. 05. 28.

2. Use of Report : Performance verification

3. Test Sample

Description : Vibration Chip

Manufacturer : DAJIM.inc

Model Name : BID

Serial Number : -

Remark : -

4. Date of Test : 2018. 05. 29. ~ 2018. 05. 29.

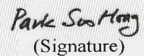
5. Test Standard/Method : Client specific requirements

6. Testing Environment : Temperature : (19.5 ± 0.5) °C , Humidity : (45 ± 1) % R.H.

7. Test Results : Refer to the attached results

Note : 1. The test results contained apply only to the test sample(s) supplied by the client

2. This test report shall not be reproduced in full or in part without approval of the KTL in advance.

Affirmation	Tested by	 (Signature)	Technical Manager	 (Signature)
	Name : Bae WonKi		Name : Park Soo-Hong	

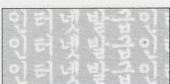
2018. 06. 01.

Korea Testing Laboratory



(Chungmugong-dong), 10, Chungui-ro, Jinju-si, Gyeongsangnam-do, Korea Tel.+82-55-791-3525/02-860-1522 Fax. +82-55-791-3529

FP204-03-03



※ 위 마크는 추후 전자확인증 대조 프로그램에서 원본대조시 사용되는 2D코드입니다.

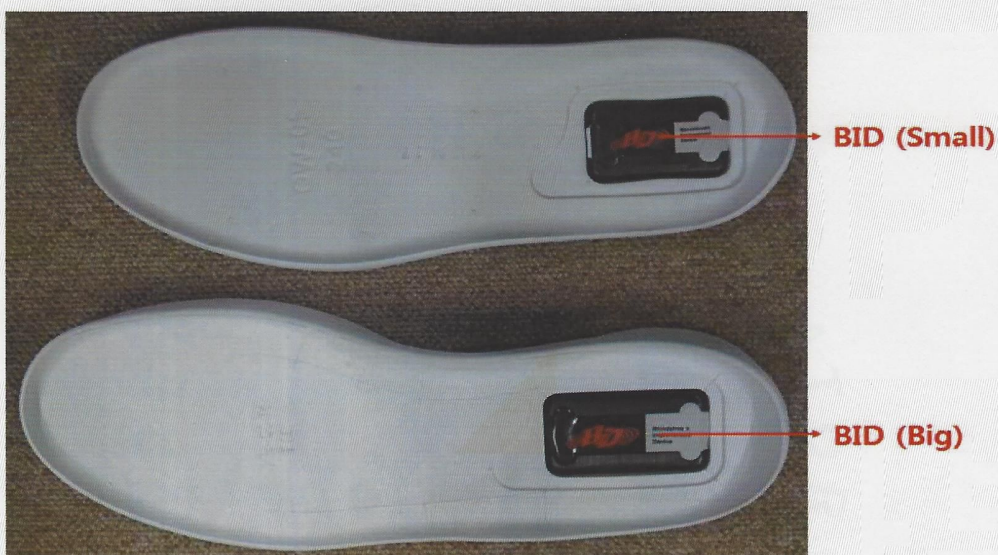
Test Results

1. Description of the test

Measurement of natural frequency and attenuation curve of the vibration chip(BID) developed by DAJIM INC.

2. Description of the test specimens

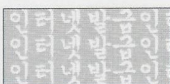
The vibration chip(BID) developed by DAJIM INC. is in <Fig. 1> and the specification is in <Table 1>.



<Fig. 1> Vibration Chip(BID)

<Table 1> Specifications

Item	Contents
Names of the specimen	Vibration Chip
Model name	BID
Size (mm3)	BID(Big) : 60×35×13 BID(Small) : 50×33×10



3. Measurement Equipments

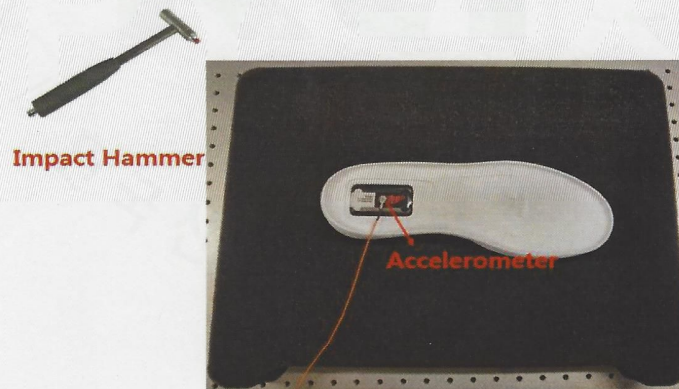
The measurement equipment used in this test is in <Table 2>.

<Table 2> Measurement equipments

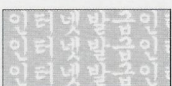
Equipment name	Manufacturer	Model name
Signal Analyser	B&K	3660C
Impact Hammer	PCB	083C03
Accelerometer	B&K	4517-002
Thermo-hygrometer	LUTRON	SP-9201
Barometer	LUTRON	SP-9201

4. Test procedure

- As shown in <Fig. 2>, the sponge is on the surface plate and BID is located on the sponge.
- The accelerometer is attached to the center of BID.
- Using Impact hammer, BID is impacted with the force range between 6 and 9 Newton(N).
- After the impact, the acceleration of BID is measured.
- The 1st natural frequency is calculated from the measured acceleration signal.
- The same test is repeated in five of BID (Big) and BID (Small).



<Fig. 2> Test equipment setting diagram



5. Description of test environment

- Test location : Korea Testing Laboratory
- Ambient temperature : (19.5 ± 0.5) °C
- Relative humidity : (45 ± 1) % R.H.
- Atmospheric pressure : (100.5 ± 0.2) kPa

6. Test result

The test results for the vibration chip (BID) are shown in the table below, and the vibration attenuation curve for the impact is shown in <Fig. 3> and <Fig. 4>.

<Table 3> BID (Big) test result

Specimen No.	Frequency [Hz]	Impact Force [N]
1	20.1	6.3
2	20.5	7.0
3	20.0	8.5
4	19.6	8.3
5	19.4	8.2

<Table 4> BID (Small) test result

Specimen No.	Frequency [Hz]	Impact Force [N]
1	19.0	6.0
2	18.5	8.1
3	18.6	6.8
4	20.3	6.3
5	19.3	7.8

