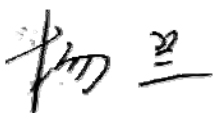




产品规格书

PRODUCT SPECIFICATION

客户名称 Buyer Name	
客户料号 Buyer Part No.	
客户承认签章 Buyers Approval & Signatures	

文件编号 Spec No.		版本	A/0
品名描述 Product Description	线性振动马达 LINEAR VIBRATION MOTOR		
型号 Part No.	VLV122792J		
送样日期 Date			
设计 Designed by	审核 Checked by	批准 Approved by	
			
2023.04.07	2023.04.07	2023.04.07	

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Contents of specification

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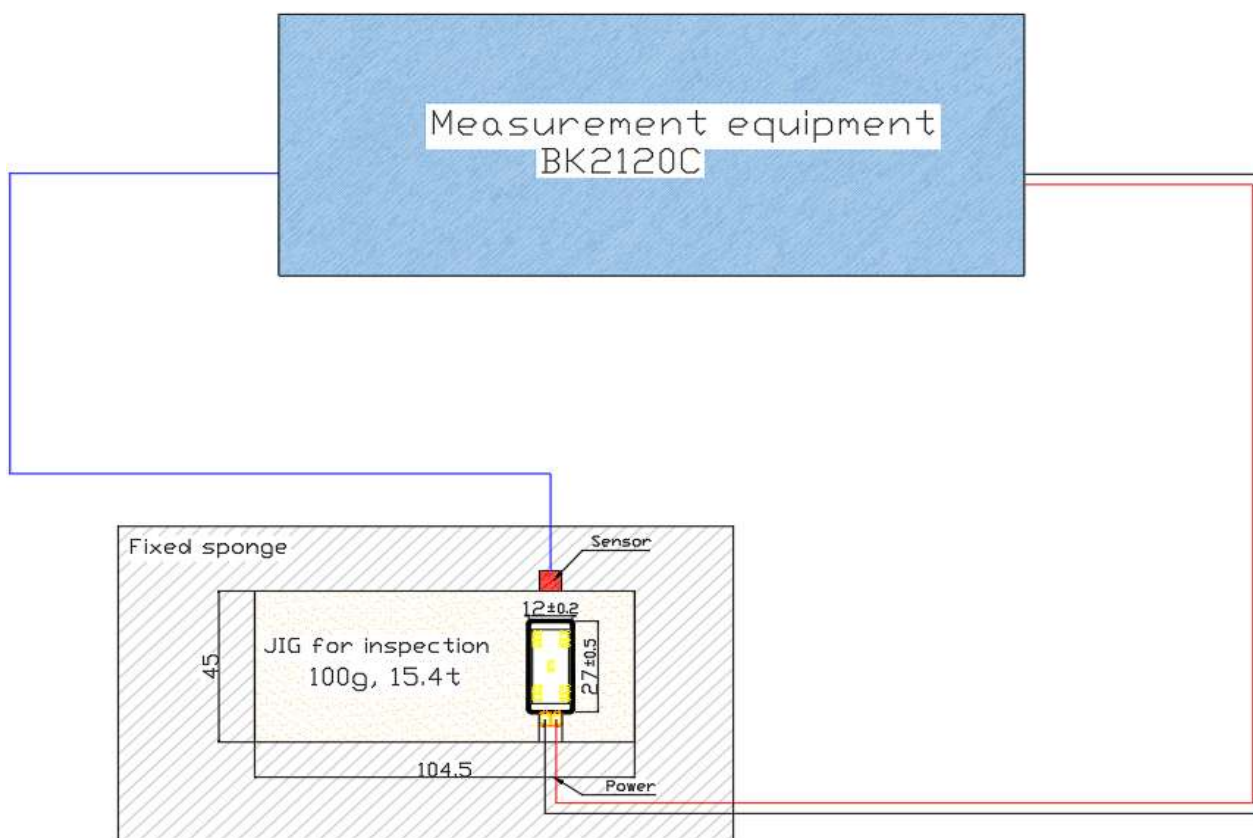
1. Revision history

Rev. No.	Rev. Date	Page No.	Revised Item	Reason
A/0	2023.04.07	/	Release for Production	

2. Measurement condition

2-1. Tester condition.

Item	Specification	
Tester	Bako BK2120C	
Test JIG	Dimension	45x104.5x15.4t
	Weight	100g
	Fixation method	By using an adhesive



2. Measuerment condition

2-2. Working environment

(1) Test condition.

Item	Specification
Temperature	$20 \pm 5^{\circ}\text{C}$
Humidity	$60 \pm 20\%\text{RH}$
Atmospheric pressure	$1013 \pm 40 \text{ hPa}$

(2) Working temperature range.

Item	Specification
storage temperature range	$-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$
Operating temperature range	$-30^{\circ}\text{C} \sim 85^{\circ}\text{C}$

3. Test standard and characteristics

3-1. Test standard

(1) These condition will be used on inspection in manufacturing process.

Item	Condition	Specification
Rated voltage		AC 2.6V _{rms}
Test Frequency		125Hz
Terminal resistance	Between terminals	12Ω ± 3
Insulation resistance	Case - Between terminals	DC 100V, Min 10MΩ

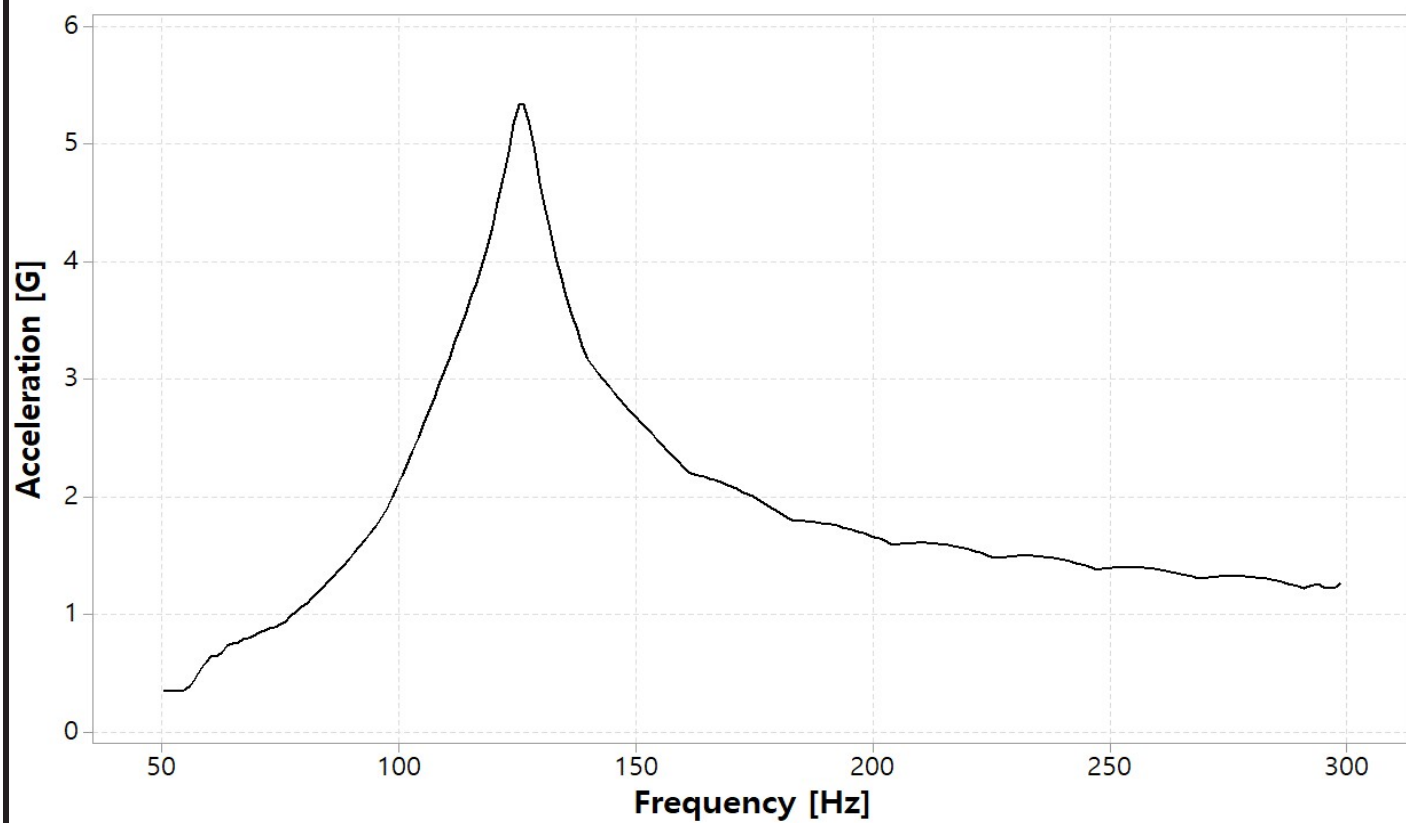
3-2. Characteristics.

Item	Condition	Specification	
Vibration Acceleration [Grms]	Refer to measurement condition	125Hz	5.5±1.5Grms
Rated current [mA]		Max 220mA	
Noise Touch [dB]		Max 35dB	
THD [%]		Max 25%	
Noise Band [dB]		Max 35dB	
Rising time [ms] 50%		Max 20ms	
Falling time [ms] 50%		Max 20ms	

3-3. FRF Graph

Below graph shows Acceleration value at each frequency.

Frequency range 50 ~ 300Hz



4. Operating condition and Life test result

4-1. Haptic operating condition

Frequency	Count of frequency cycle.	Voltage
130Hz and more	Max 1 cycle	Max 5V _{op}
200Hz and more	Max 2 cycle	Max 10V _{op}
Reliability test count: 1M		

4-2. On/Off operating condition

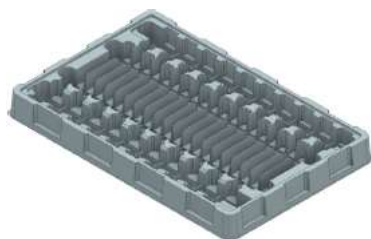
Frequency	On/Off time	Voltage
150Hz and more	On: 2Sec Off: 1sec	2.6V _{rms}
Reliability test count: 200K (About 7days)		

4-3. Life test result.

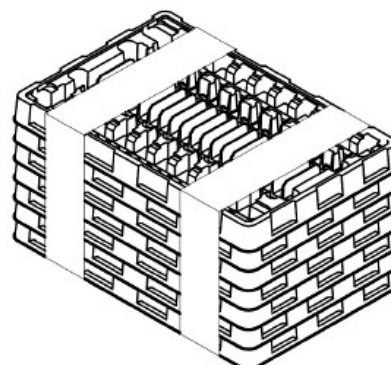
Criteria of reliability test is the change rate under 25% before/after testing.

Item	Num	Vibration [Grms]	Current [mA]	Rising time [ms]	Falling time [ms]
Initial value	1	5.88	125.4	7.1	9.1
	2	5.59	124.7	6.8	10.8
	3	5.67	124.4	7.1	8.8
	4	5.54	124.7	6.9	9.4
	5	5.53	124.3	7.4	8.8
	6	5.80	126.5	6.8	8.5
	7	5.52	124.9	7.3	8.0
	8	5.68	124.5	7.0	8.7
	9	5.60	125.1	6.6	10.2
	10	6.28	131.9	5.9	12.8
Result value	1	5.90	128.2	6.0	11.2
	2	5.90	130.2	5.9	11.5
	3	5.88	126.0	6.7	10.3
	4	5.52	123.4	7.9	9.5
	5	5.44	126.0	6.5	10.3
	6	5.48	125.2	6.6	9.6
	7	5.44	127.4	6.2	10.8
	8	6.08	130.6	6.1	11.7
	9	5.61	126.4	6.3	11.3
	10	5.59	128.2	6.3	10.5

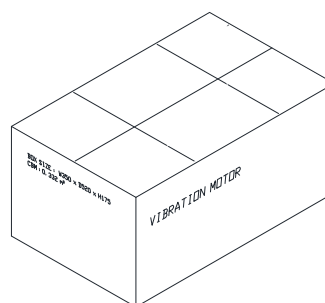
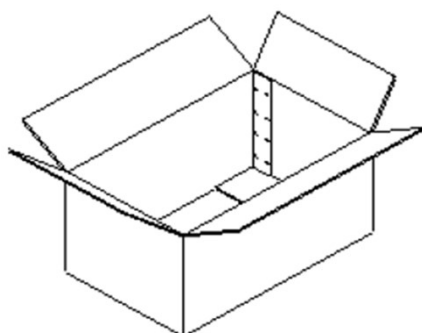
5. Packing Condition



1 Tray : 20ea

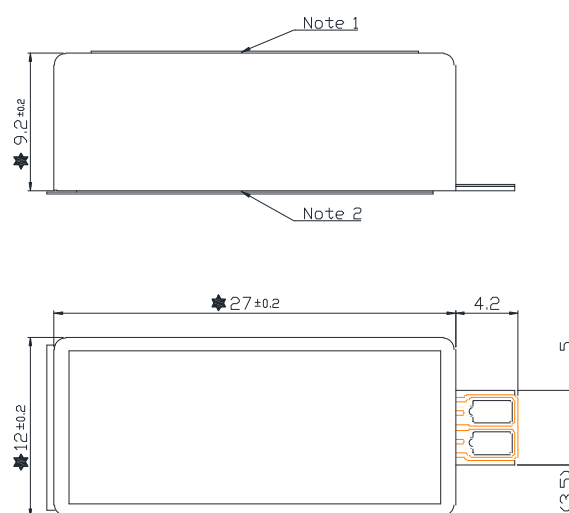


- 7(8) Tray x 4 =
560ea



- (1) Packing quantity : 560pcs / Box
- (2) Carton size : 520 mm × 350 mm × 175 mm
- (3) Tray size : 168 mm × 250 mm
- (4) Stacking limitation : Max 6 cartons

6. Drawing



**** NOTE ****

1. Protect tape : 0.1t (transparent PET)
2. Double sided adhesive : 0.1t
3. Marking TBD