



## Data Sheet

HD-VA3222

### Features:

- Fast response times over a wide frequency range
- Maximum acceleration of 2.52 Gp-p measured at 133Hz
- Compact, flat design allows for a variety of implementations

### **Specifications**

Parameters	Values				Units
Max Input Voltage	1.5				V <sub>rms</sub>
DC Resistance	8.3				Ohms
Nominal Impedance	8.4 ± 0.9				Ohms
Resonant Frequency	133 ± 13				Hz
Frequency Range	80 ~ 500				Hz
Max Acceleration (@133 Hz)	2.52				Gp-p
Frequency Response	133 Hz	300 Hz	400 Hz	500 Hz	
Characteristics (@ 0.5V)	2.52	0.41	0.33	0.28	Gp-p
Rise Time 0-90%	46				ms
Fall time 100-10%	36				ms
	FORWARD				
					-
Polarity	BACKWARD				
Environmental Compliances	RoHS/REACH				-
Weight	8.5				Grams
Storage Temperature	-40 ~ +105				°C
Operating Temperature	-40 ~ +85				°C

### **Acceleration Frequency Response**



**Impedance Frequency Response** 



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### **Reliability Testing**

Type of Test	Test Specifications		
	Temperature: +55°C Duration: 6 cycles (144 hrs.) Input: 1.5V sine wave, 133 Hz (Fo)	+55℃ +25℃ 3h. 9h. 3h. 9h. 1cycle	
Damp Heat Test			
High Temperature Endurance Test	Temperature: +85°C Duration: 1478 hours Input: 1.5V sine wave, 133 Hz (Fo)		
Low Temperature Test	Temperature: -40°C Duration: 48 hours Input: 1.5V sine wave, 133 Hz (Fo)		
Temperature Cycle Testing	Duration: 540 cycles (1170 hrs.) Cycle Operation: 2°C / min. Input: 1.5V sine wave, 133 Hz (Fo)	+85°C Room Temp -40°C 5min Smin Icycle	
Drop Test	Drop from a height of 1m to the concrete ground one time in each direction XYZ		

Acceleration frequency characteristics shall be within tolerance after each test. Adhesive tape shall remain undisturbed with less than 10N of force applied.

# **Dimensions**



# Packaging



Cover sheet (Film)		Security tape
Poly bag	8	Carton label

Manufacturing label

Blister trav

3 4

## **Soldering Recommendations**

Recommended Cable Spec : AWG#28 推奨ケーブル : AWG#28



#### Recommended Procedure for Cable Assembly

#### Step1:

Place two Cables to the grooves of Frame, and put the cable conductors on the terminals of Frame.



#### Step2:

Soldering the cable conductors with the terminals.



Step3:

Hook cables as shown below, and apply a glue to fix the cables. It may help to prevent the conductor break at soldering area.

