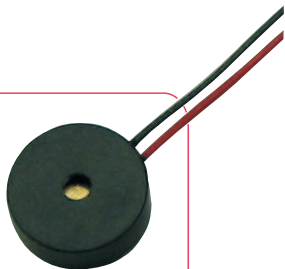


# SoniCrest

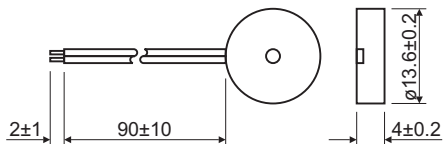
## PIEZO SOUND GENERATORS



**HPA13D**

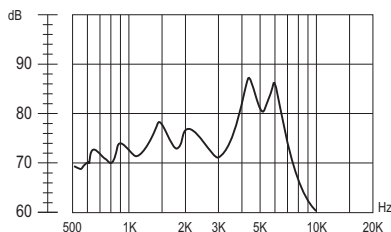
### Dimension

Unit : mm  
Tolerance :  $\pm 0.3\text{mm}$



### Frequency Response

Applied Voltage : 5Vp-p  
50% Duty Square Wave  
Measuring Distance : 10cm



### Specification (all data taken at 25°C unless otherwise specified)

HPA13D	Rated Voltage (Vp-p)	Maximum Operating Voltage (Vp-p)	★Rated Current (mA)	★Sound Output at 10cm (dB)	Rated Frequency (Hz)	Capacitance (nF)	Operating Temperature (°C)	Storage Temperature (°C)	Weight (g)
	5	20	< 2	> 75	4800 ± 500	12 ± 30%	-20 ~ +70	-30 ~ +70	1

★Value Applying Rated Voltage, Rated Frequency, 50% Duty Square Wave