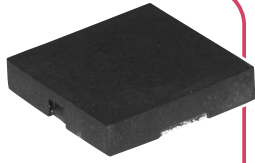


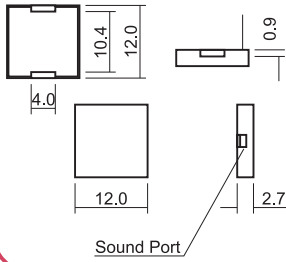
# SoniCrest PIEZO SOUND GENERATORS



## HPS12A

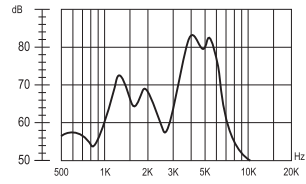
### Dimension

Unit: mm  
Tolerance : 0.3mm



### Frequency Response

Applied Voltage : 3Vp-p, 50% Duty Square Wave  
Measuring Distance : 10cm



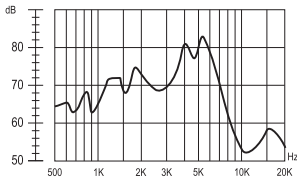
### Specification (all data taken at 25°C unless otherwise specified)

HPS12A	Rated Voltage (Vp-p)	Operating Voltage (V)	★Rated Current (mA)	★Sound Output at 10cm (dB)	Rated Frequency (Hz)	Capacitance (nF)	Operating Temperature (°C)	Storage Temperature (°C)	Weight (g)
	3	1 ~ 25	≤3	≥70	4000 ± 500	15 ± 30%	-20 ~ +70	-40 ~ +85	0.5

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

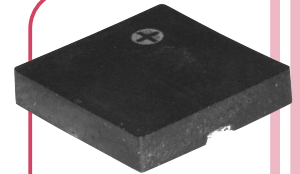
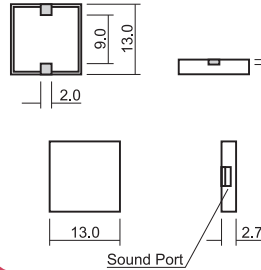
### Frequency Response

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



### Dimension

Unit: mm  
Tolerance : 0.3mm



## HPS13B

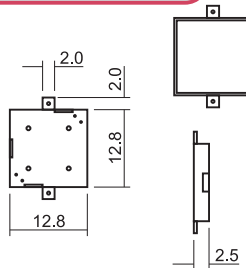
### Specification (all data taken at 25°C unless otherwise specified)

HPS13B	Rated Voltage (Vp-p)	Operating Voltage (V)	★Rated Current (mA)	★Sound Output at 10cm (dB)	Rated Frequency (Hz)	Capacitance (nF)	Operating Temperature (°C)	Storage Temperature (°C)	Weight (g)
	5	1 ~ 25	≤5	≥75	4100 ± 500	20 ± 30%	-20 ~ +70	-20 ~ +85	0.6

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

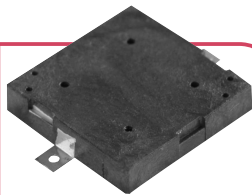
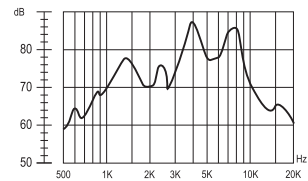
### Dimension

Unit: mm  
Tolerance : 0.3mm



### Frequency Response

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



## HPS13C

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

HPS13C	Rated Voltage (Vp-p)	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	1 ~ 25	≤5	≥80	4100 ± 500	16 ± 30%	-20 ~ +70	-20 ~ +80	0.5

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