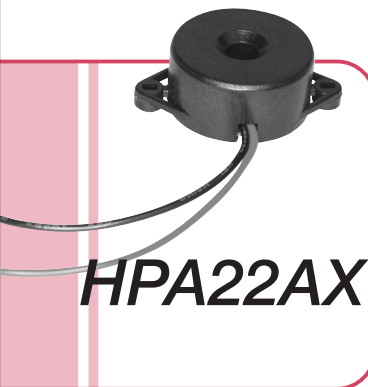
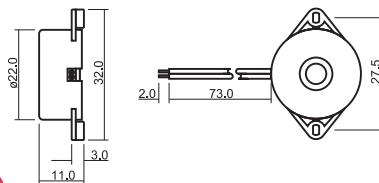


SoniCrest PIEZO SOUND GENERATORS



HPA22AX



Dimension

Unit: mm
Tolerance : 0.3mm

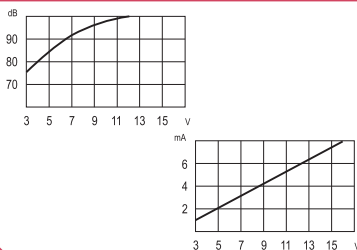
Specification (all data taken at 25°C unless otherwise specified)

| HPA22AX | Rated Voltage (V) | Operating Voltage (V) | ★Rated Current (mA) | ★Sound Output at 30cm (dB) | ★Generated Frequency (Hz) | Operating Temperature (°C) | Storage Temperature (°C) | Weight (g) |
|---------|-------------------|-----------------------|---------------------|----------------------------|---------------------------|----------------------------|--------------------------|------------|
| | 12 | 3 ~ 28 | ≤8 | ≥85 | 4500 ± 500 | -20 ~ +70 | -30 ~ +80 | 4 |

★ Value Applying Rated Voltage, DC

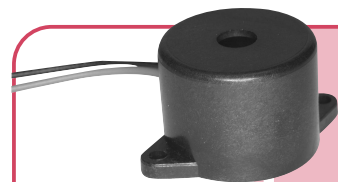
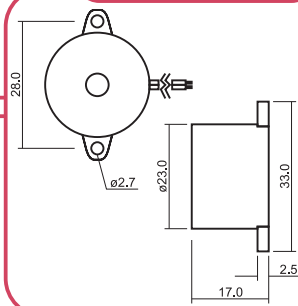
Characteristics Response

Measuring Temperature : 25°C
Measuring Distance : 30cm



Dimension

Unit: mm
Tolerance : 0.3mm



HPA23AX

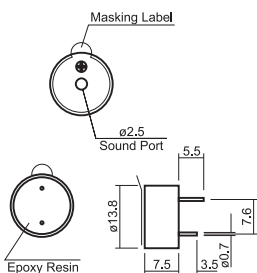
Specification (all data taken at 25°C unless otherwise specified)

| HPA23AX | Rated Voltage (V) | Operating Voltage (V) | ★Rated Current (mA) | ★Sound Output at 30cm (dB) | ★Generated Frequency (Hz) | Operating Temperature (°C) | Storage Temperature (°C) | Weight (g) |
|---------|-------------------|-----------------------|---------------------|----------------------------|---------------------------|----------------------------|--------------------------|------------|
| | 12 | 3 ~ 16 | ≤8 | ≥90 | 3700 ± 500 | -20 ~ + 60 | -30 ~ +70 | 4.5 |

★ Value Applying Rated Voltage, DC

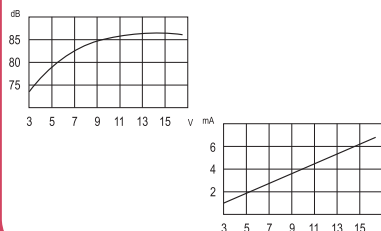
Dimension

Unit: mm
Tolerance : 0.3mm



Characteristics Response

Measuring Temperature : 25°C
Measuring Distance : 10cm



HPM14AX

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

| HPM14AX | Rated Voltage (V) | Operating Voltage (V) | ★Rated Current (mA) | ★Sound Output at 10cm (dB) | ★Generated Frequency (Hz) | Operating Temperature (°C) | Storage Temperature (°C) | Weight (g) |
|---------|-------------------|-----------------------|---------------------|----------------------------|---------------------------|----------------------------|--------------------------|------------|
| | 12 | 3 ~ 16 | ≤7 | ≥80 | 4000 ± 500 | -20 ~ +70 | -30 ~ +80 | 1 |

★ Value Applying Rated Voltage, DC