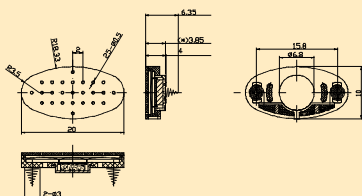


Speaker Sound Generators - Micro Speaker

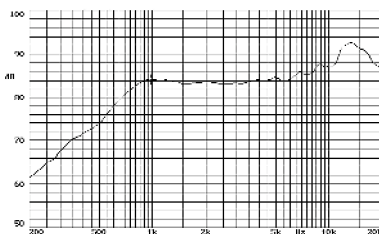
HSB1020B

Dimension Unit:mm Tolerance:0.3mm



Frequency Response

Applied Signal : 0.1W, Sine Wave
Measuring Distance : 10cm



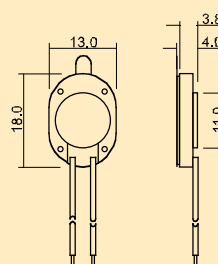
Specification (all data taken at 25°C unless otherwise specified)

Model	Coil Impedance (Ω)	Rated Power (W)	Maximum Input Power (W)	Resonance Frequency (Hz)	★Frequency Range (Hz)	★Sound Output at 1kHz (dB)	Operating Temperature (°C)	Storage Temperature (°C)
HSB1020B-8	8 ± 15%	0.2	0.3	1000 ± 20%	1000 ~ 20000	84 ± 3	-30 ~ +70	-40 ~ +85

The specifications are only for 8Ω version. Specification for other impedance is available upon request.
★ Value normalized to 0.1W input power and 10cm measuring distance.

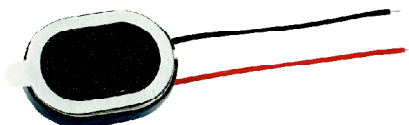
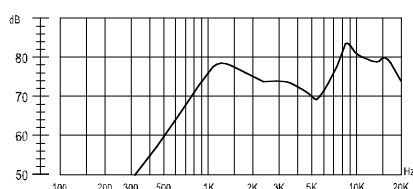
HSB1318A

Dimension Unit:mm Tolerance:0.3mm



Frequency Response

Normalized to 1W Input Power and 1m
Measuring Distance



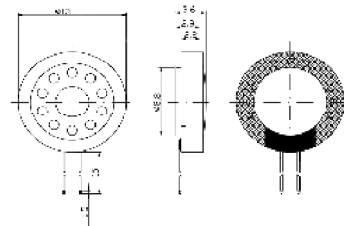
Specification (all data taken at 25°C unless otherwise specified)

Model	Coil Impedance (Ω)	Rated Power (W)	Maximum Input Power (W)	Resonance Frequency (Hz)	★Frequency Range (Hz)	★Sound Output at 1kHz (dB)	Operating Temperature (°C)	Storage Temperature (°C)
HSB1318A-8	8 ± 20%	0.5	1	1100 ± 15%	1100 ~ 20000	75 ± 3	-40 ~ +70	-40 ~ +70

The specifications are only for 8Ω version. Specification for other impedance is available upon request.
★ Value normalized to 1W input power and 1m measuring distance.

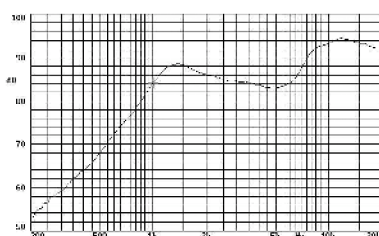
HSB13K

Dimension Unit:mm Tolerance:0.3mm



Frequency Response

Applied Signal : 0.1W, Sine Wave
Measuring Distance : 10cm



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

Model	Coil Impedance (Ω)	Rated Power (W)	Maximum Input Power (W)	Resonance Frequency (Hz)	★Frequency Range (Hz)	★Sound Output at 1kHz (dB)	Operating Temperature (°C)	Storage Temperature (°C)
HSB13K-8	8 ± 15%	0.5	0.75	1200 ± 15%	1200 ~ 20000	86 ± 3	-20 ~ +70	-40 ~ +85

The specifications are only for 8Ω version. Specification for other impedance is available upon request.
★ Value normalized to 0.1W input power and 10cm measuring distance.