

HIBM36S12-8/A Balanced Mode Radiator

üRoHS
COMPLIANT



Features

- Wide bandwidth and wide directivity
- Impedance: 8
- Dimensions: 65mm x 65mm
- Thickness: 29.7mm
- Mass: 88.2g

Applications

- Docking stations
- Table radios
- Sound bars
- Computer speakers
- Wireless speakers

Description

The HIBM36S12-8A Balanced-Mode Radiator (BMR) is an audio drive unit with an extended frequency response and wide directivity compared with a conventional drive unit. It combines the benefits of HiWave bending-wave technology and pistonic modes of operation. It is ideally suited for compact audio applications that require a full-range, high performance acoustic solution.

This second generation drive unit has improved response smoothness and linearity at high excursion. A 4 version is also available.

Parameters

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-10%	7.8	+10%	Ohms
L_e	Inductance	-10%	0.12	+10%	mH
BL	Force factor		3.85		Tm
f_s	Resonance frequency	-20%	154	+20%	Hz
d_{Drv}	Voice coil diameter		25.4		mm
M_{ms}	Moving mass		1.6		g
C_{ms}	Compliance		0.73		mmN ⁻¹
R_{ms}	Suspension Loss		0.5		Nsm ⁻¹
S_d	Radiating Area		17.2		cm ²
$X_{mech\ max}$	Maximum coil excursion (p-p)		7.0		mm
S_d	Effective piston area		17.2		cm ²
V_{AS}	Equivalent volume		0.3		L
Q_{ms}	Mechanical quality factor		3.3		
Q_{es}	Electrical quality factor		0.8		
Q_{ts}	Total quality factor		0.64		

Operating conditions

Condition	Value
Continuous power handling (weighted pink noise)	12W (TBC)
Burst power handling (weighted pink noise)	>24W (TBC)
Operating temperature range	-20 to 55° C
Audio frequency range	80Hz to 20kHz

Response

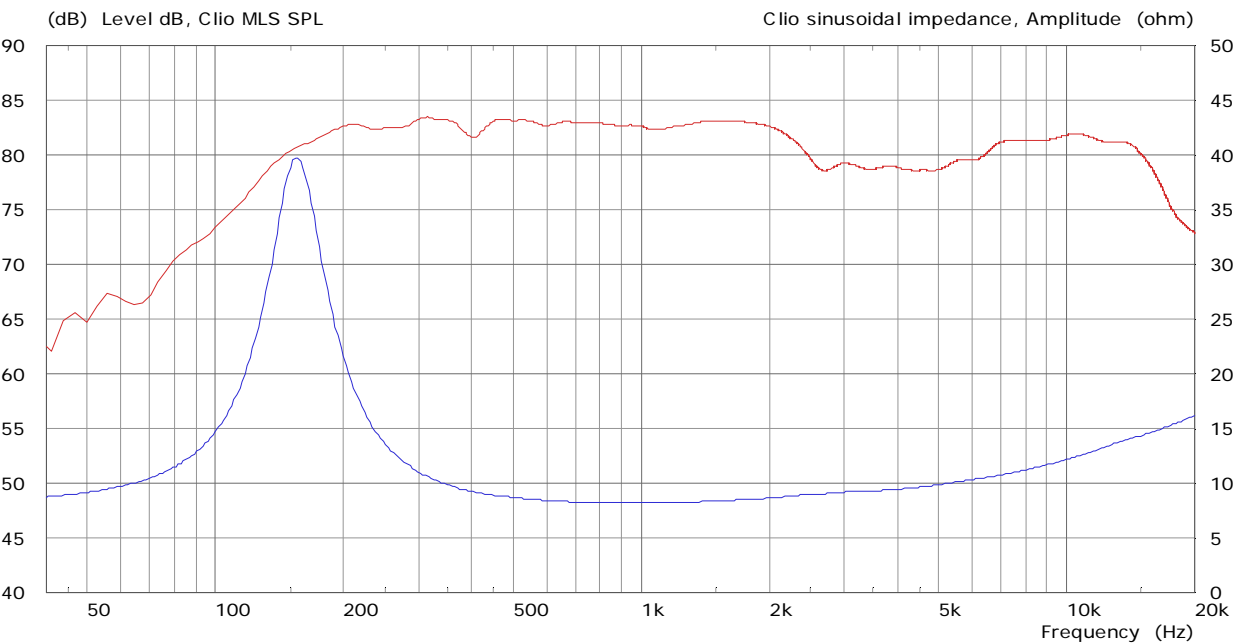


Figure 1. SPL & impedance vs. frequency

Outline Drawing

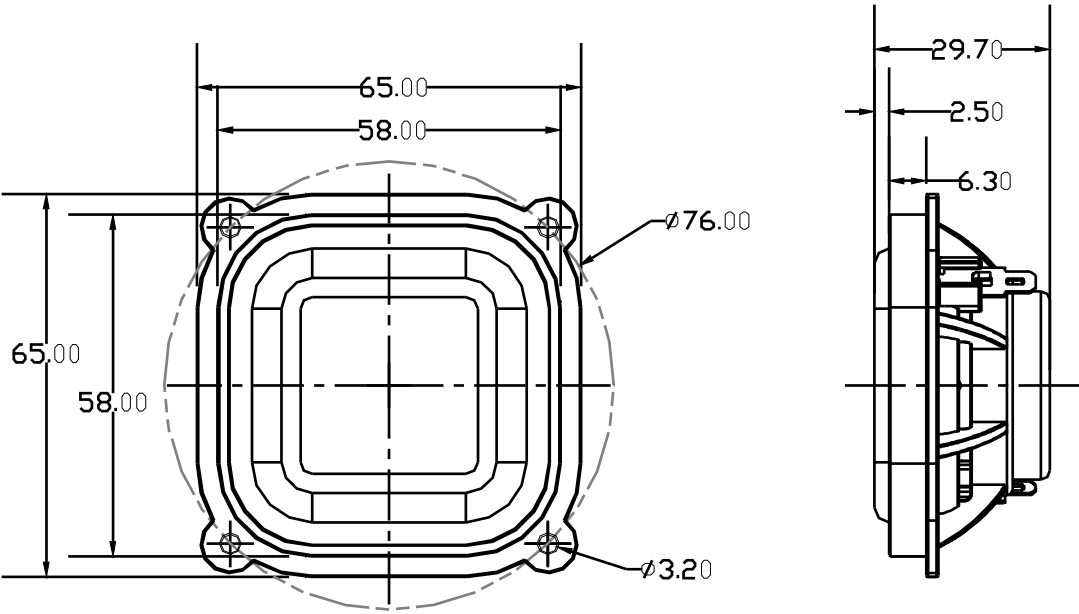


Figure 2. Nominal dimensions