

HiBM65C20F-8 Balanced Mode Radiator



Features

- Wide bandwidth and wide directivity
- Impedance: 8Ω
- Dimensions: 100mm (max OD)
- Depth: 57mm (TBC)
- Mass: 685g

Applications

- Home theatre systems
- Computer speakers
- Sound bars
- Mini hi-fi systems

Description

The HiBM65C20F-8 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. It features an advanced ferrite motor system for low cost.

Parameters (predicted)

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-10%	7.20	+10%	Ohms
L_e	Inductance	-10%	0.055	+10%	mH
BL	Force factor		4.33		Tm
f_s	Resonance frequency	-20%	86	+20%	Hz
d_{Drv}	Voice coil diameter		25.4		mm
M_{ms}	Moving mass		5.25		g
C_{ms}	Compliance		0.65		mmN^{-1}
R_{ms}	Suspension Loss		0.58		Nsm^{-1}
S_d	Radiating Area		37.2		cm^2
$X_{mech\ max}$	Maximum coil excursion (p-p)		10.0		mm
V_{AS}	Equivalent volume		1.26		L
Q_{ms}	Mechanical quality factor		4.90		
Q_{es}	Electrical quality factor		1.09		
Q_{ts}	Total quality factor		0.89		

Operating conditions

Condition	Value
Continuous power handling (weighted pink noise)	20W (TBC)
Burst power handling (weighted pink noise)	>40W (TBC)
Operating temperature range	-20 to 55° C
Audio frequency range	80Hz to 20kHz

Response

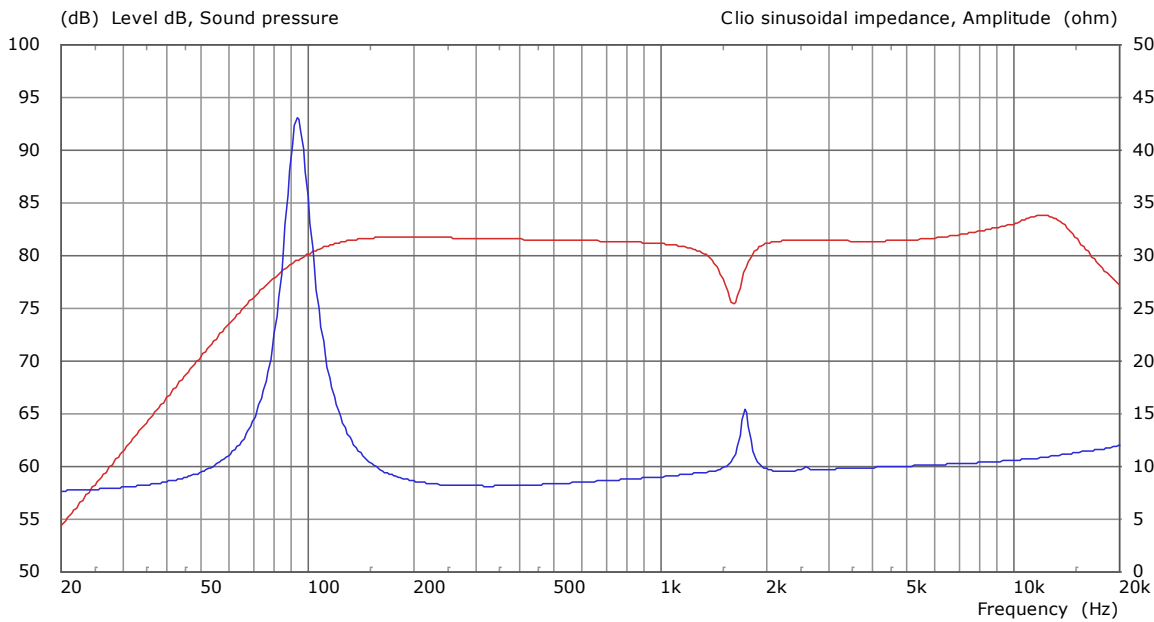


Figure 1. Simulated SPL & impedance vs. frequency

Outline Drawing

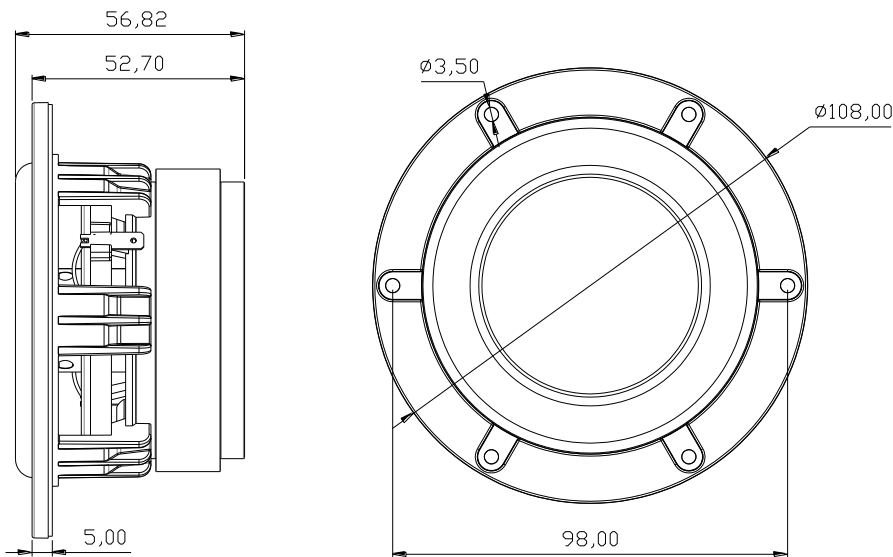


Figure 2. Nominal dimensions