

HiBM65C20F-4 Balanced Mode Radiator

üRoHS
COMPLIANT



Features

- Wide bandwidth and wide directivity
- Impedance: 4
- Dimensions: 108mm (max OD)
- Depth: 57mm (TBC)
- Mass: 685g

Applications

- Home theatre systems
- Wireless speakers
- Sound bars
- Hi-Fi systems

Description

The HiBM65C20F-4 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%	3.80	+10%	Ohms
L_e	Inductance	-10%	0.038	+10%	mH
BL	Force factor		3.48		Tm
f_s	Resonance frequency	-20%	80	+20%	Hz
d_{Drv}	Voice coil diameter		25.4		mm
M_{ms}	Moving mass		6.37		g
C_{ms}	Compliance		0.63		mmN ⁻¹
R_{ms}	Suspension Loss		0.50		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		1.22		L
Q_{ms}	Mechanical quality factor		6.36		
Q_{es}	Electrical quality factor		1.00		
Q_{ts}	Total quality factor		0.86		

Operating conditions

Condition	Value
Continuous power handling (weighted pink noise)	30W (TBC)
Burst power handling (weighted pink noise)	>60W (TBC)
Operating temperature range	-20 to 55° C
Audio frequency range	70Hz to 20kHz

Response

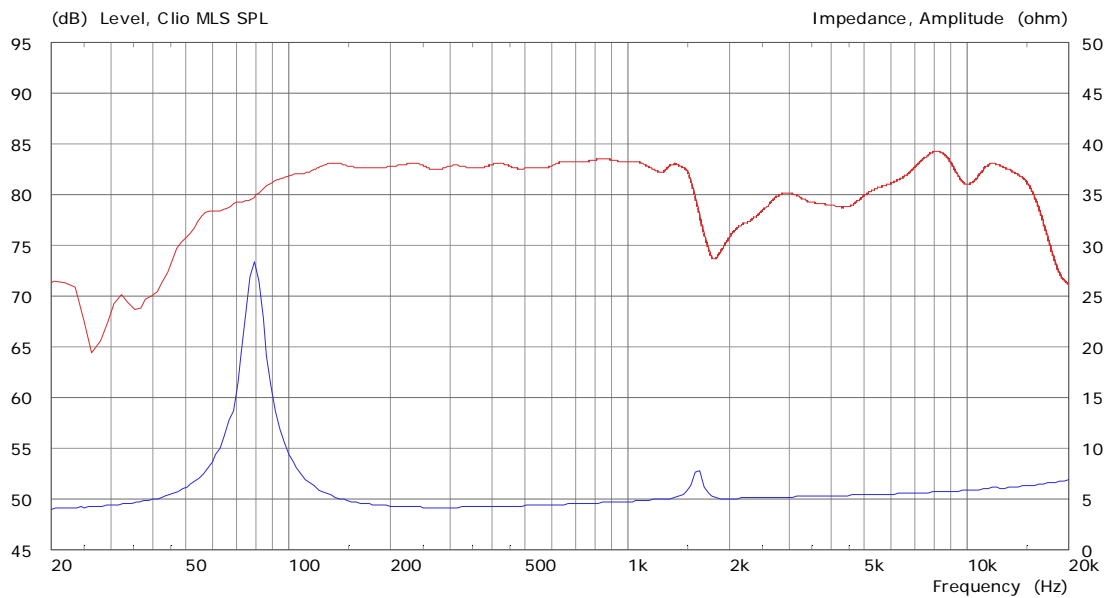


Figure 1. SPL at 1W, 1m & impedance vs. frequency

Outline Drawing

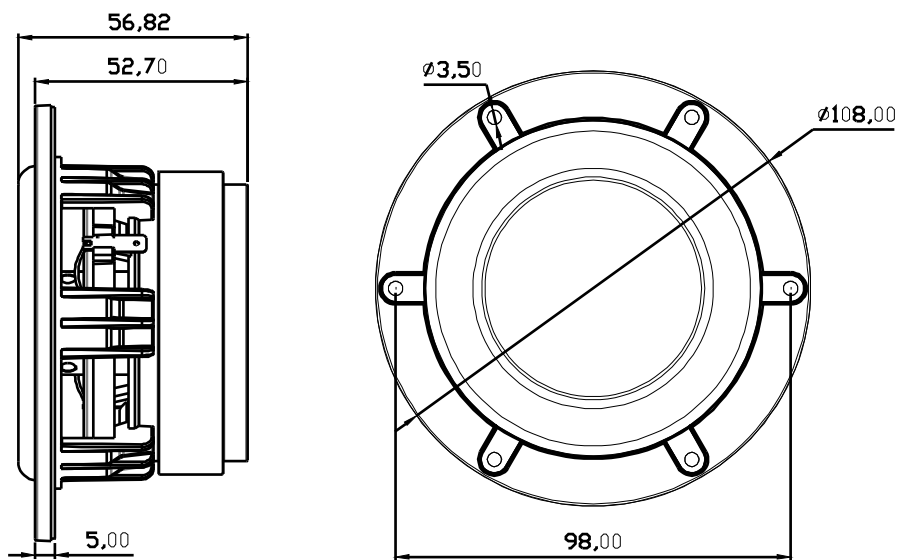


Figure 2. Nominal dimensions