

HiBM65C20F-8 Balanced Mode Radiator

✓RoHS
COMPLIANT



Features

- Wide bandwidth and wide directivity
- Impedance: 8Ω
- Dimensions: 108mm (max OD)
- Depth: 57mm
- Mass: 685g

Applications

- Home theatre systems
- Wireless speakers
- Sound bars
- 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.

A 4ohm version is also available.

Parameters

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-10%	7.41	+10%	Ohms
L_e	Inductance	-10%	0.058	+10%	mH
BL	Force factor		4.34		Tm
f_s	Resonance frequency	-20%	92	+20%	Hz
dDrv	Voice coil diameter		25.4		mm
M_{ms}	Moving mass		5.77		g
C_{ms}	Compliance		0.52		mmN^{-1}
R_{ms}	Suspension Loss		0.56		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		1.01		L
Q_{ms}	Mechanical quality factor		5.93		
Q_{es}	Electrical quality factor		1.31		
Q_{ts}	Total quality factor		1.07		

Operating conditions

Condition	Value
Continuous power handling (weighted pink noise)	30W
Burst power handling (weighted pink noise)	>60W
Operating temperature range	-20 to 55° C
Audio frequency range	60Hz to 20kHz
Sound pressure level @ 1W, 1m	81dB

Response

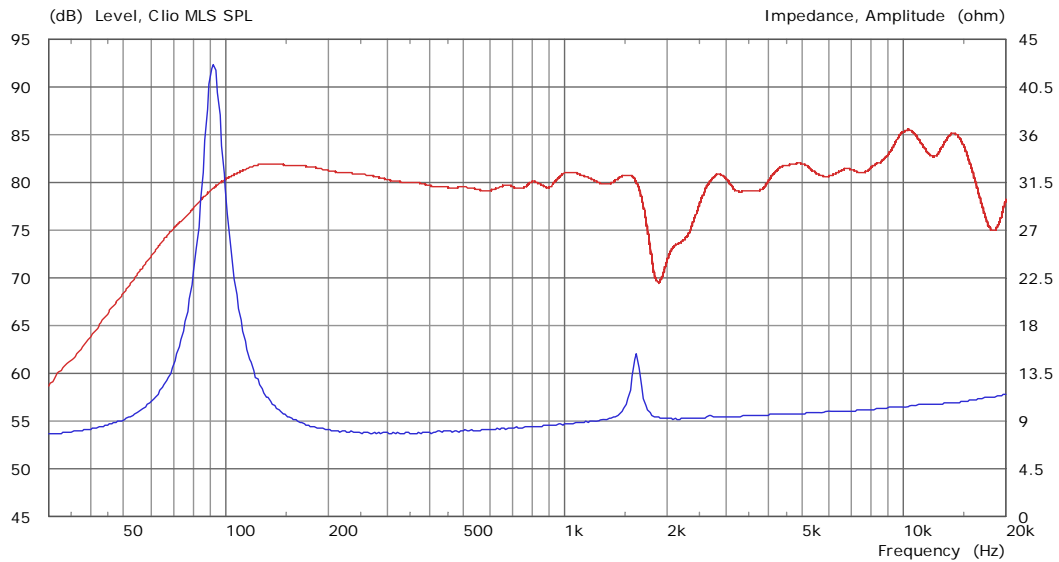


Figure 1. SPL (1W, 1m) & impedance vs. frequency.

Outline Drawing

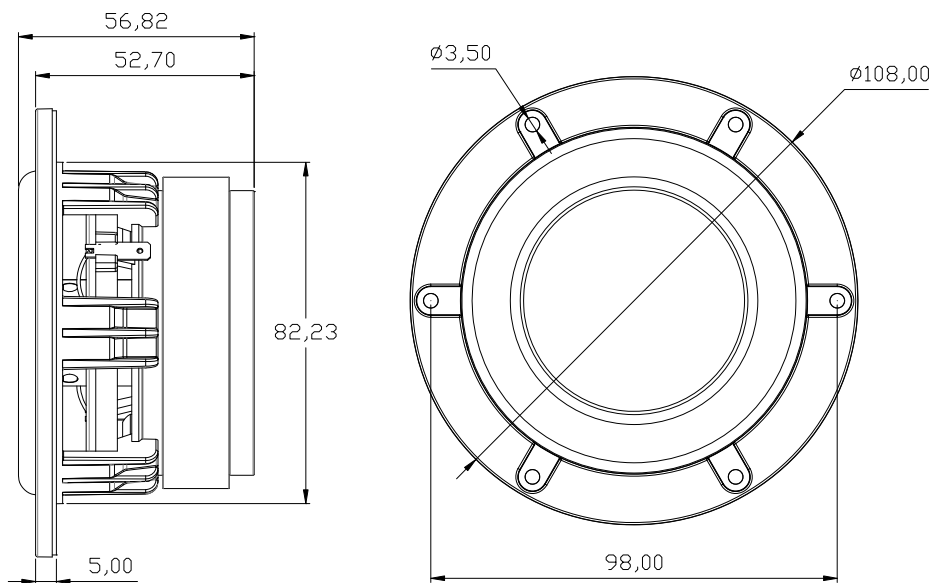


Figure 2. Nominal dimensions