

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
<i>f</i> s	Resonance frequency	-20%	86	+20%	Hz
dDrv	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		
\mathbf{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

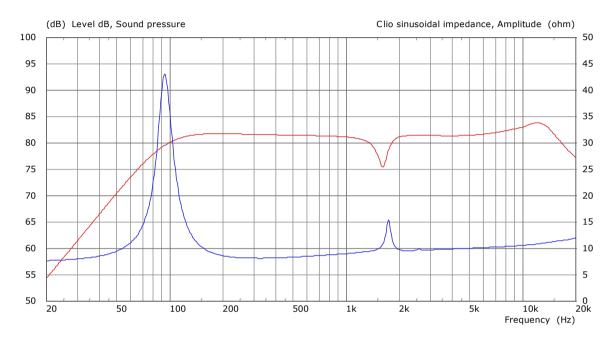


Figure 1. Simulated SPL & impedance vs. frequency

Outline Drawing

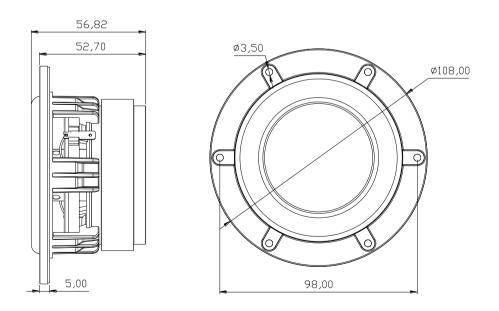


Figure 2. Nominal dimensions