

HIBM130H10-8/LP High Aspect Ratio Panel BMR



Features

- Wide bandwidth and wide directivity
- Impedance: 8Ω
- Dimensions: 131mm x 29mm
- Low profile: only 21mm deep.
- Mass: 69.7g

Applications

- Flat TV speakers
- Sound bars
- Narrow form-factor loudspeakers

Parameters

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-10%	8.0	+10%	Ohms
L_e	Inductance (@ 10kHz)	-10%	0.10	+10%	mH
BW_A	Audio frequency range	100	-	20000	Hz
P	Rated power (IEC268-5)	-	10	15	W
BL	Force factor	-	3.4	-	Tm
f_s	Resonant frequency	-10%	173	+10%	Hz
SPL	Sound Pressure Level @ 1W, 1m	-	78	-	dB
d_{Drv}	Voice coil diameter	-	16.4	-	mm
M_{ms}	Moving mass	-	2.7	-	g
C_{ms}	Compliance	-	0.40	-	mmN^{-1}
R_{ms}	Suspension Loss	-	0.50	-	Nsm^{-1}
$X_{mech\ max}$	Maximum coil excursion (p-p)	-	5.6	-	mm
S_d	Effective piston area	-	25.2	-	cm^2
V_{AS}	Equivalent volume	-	0.355	-	L
Q_{ms}	Mechanical quality factor	-	5.20	-	
Q_{es}	Electrical quality factor	-	1.80	-	
Q_{ts}	Total quality factor	-	1.34	-	
Temp	Operating temperature range	-20	-	55	$^{\circ}C$

Description

The HIBM130H10-8/LP High Aspect Ratio Panel Balanced Mode Radiator (HARP 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.

The low profile form-factor is ideally suited for thin flat-panel TV audio applications that require a full-range, high performance acoustic solution.

Response

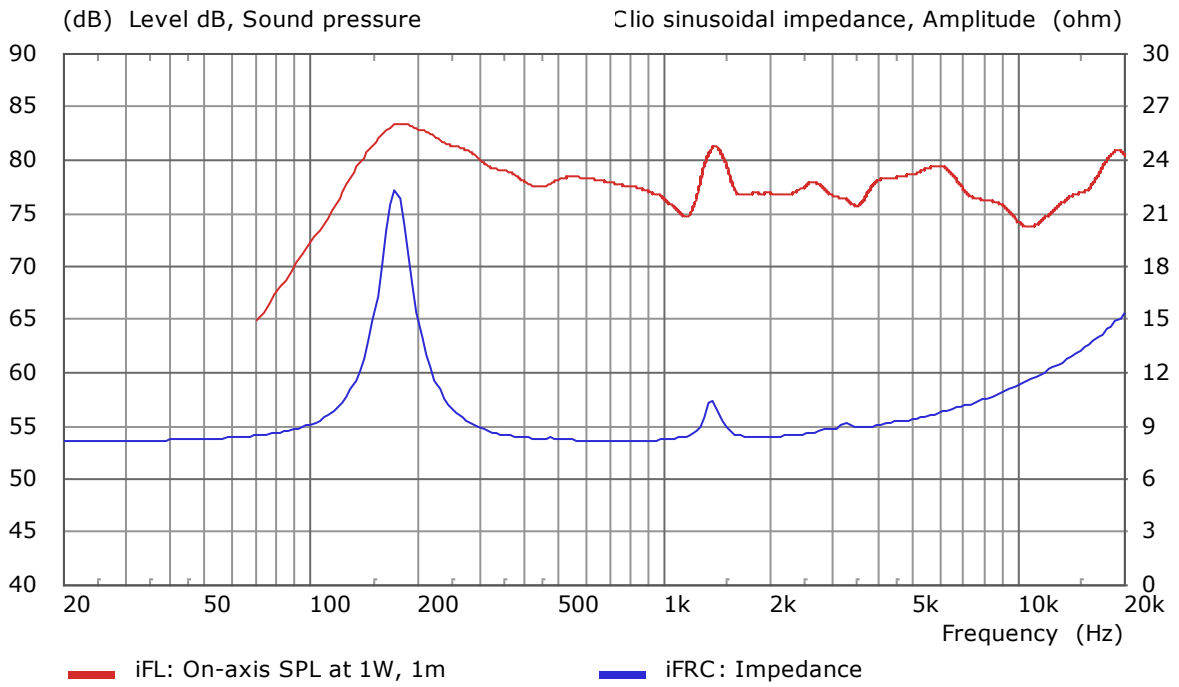


Figure 1. Impedance vs. frequency and SPL

Outline Drawing

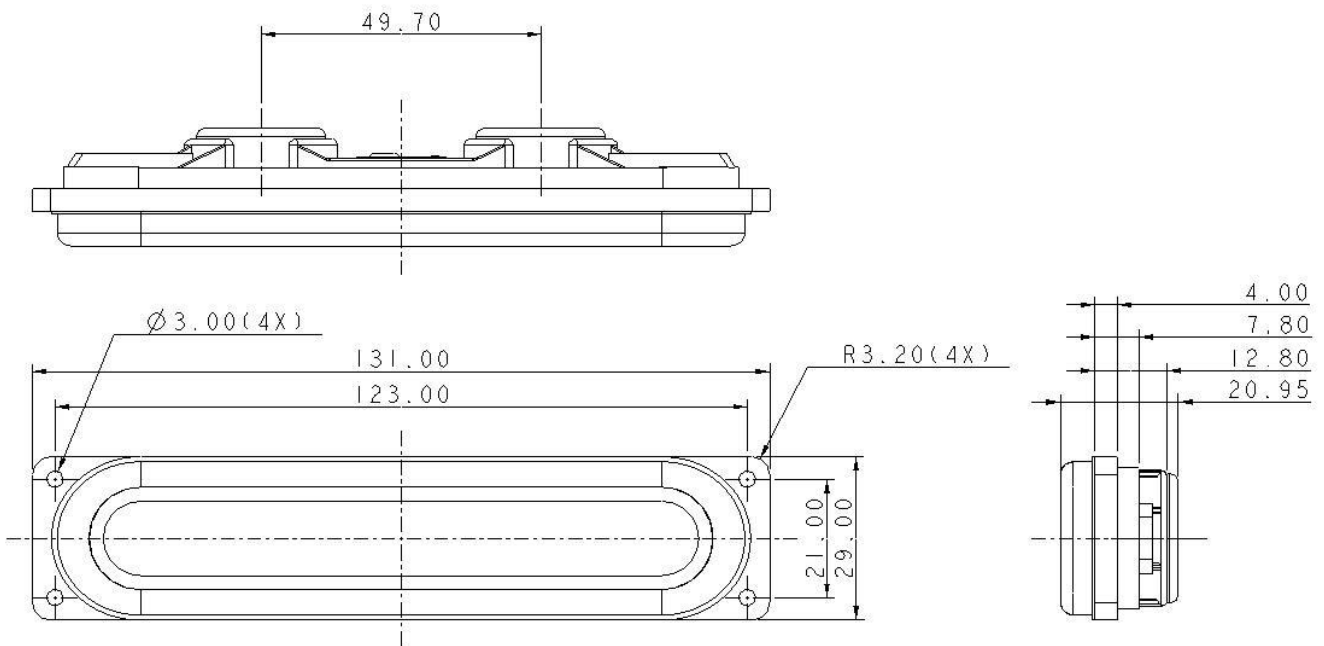


Figure 2. Nominal dimensions