

HIAX25C10-8/HS High Efficiency Exciter



Features

- Nominal Impedance: 8Ω
- Dimensions: 61.3mm x 50.6mm
- Thickness: 19mm
- Mass: 85g
- Self-adhesive mounting

Applications

- Concealed audio
- Kitchen units
- Automotive interior panels.

Description

The HIAX25C10-8/HS is a High Power 25mm audio exciter, designed to be attached to a flat panel to radiate sound.

It provides high output at high efficiency (or “shove”) with good power handling and can be used in a wide range of high power audio applications.

Parameters

Parameter	Description	min	typ	max	Units
R_e	DC resistance	-10%	7.9	+10%	Ohms
L_e	Inductance (@ 10kHz)	-10%	0.1	+10%	mH
BW_A	Audio frequency range	100	-	20000	Hz
P	Power Handling	-	10	15	W
BL	Force factor	-	4.4	-	Tm
β	Motor efficiency factor	-	2.45	-	Hz
f_s	Resonant frequency	-10%	200	+10%	Hz
f_m	Magnet resonance	-10%	22	+10%	Hz
dD_{rv}	Voice coil diameter	-	25.4	-	mm
M_{ms}	Moving mass	-	1.0	-	g
M_{mm}	Magnet mass	-	84.5	-	g
C_{ms}	Compliance	-	0.65	-	mmN ⁻¹
R_{ms}	Suspension Loss	-	0.06	-	Nsm ⁻¹
$X_{mech\ max}$			4		mm
Temp	Operating temperature range	-20	-	55	°C

Response

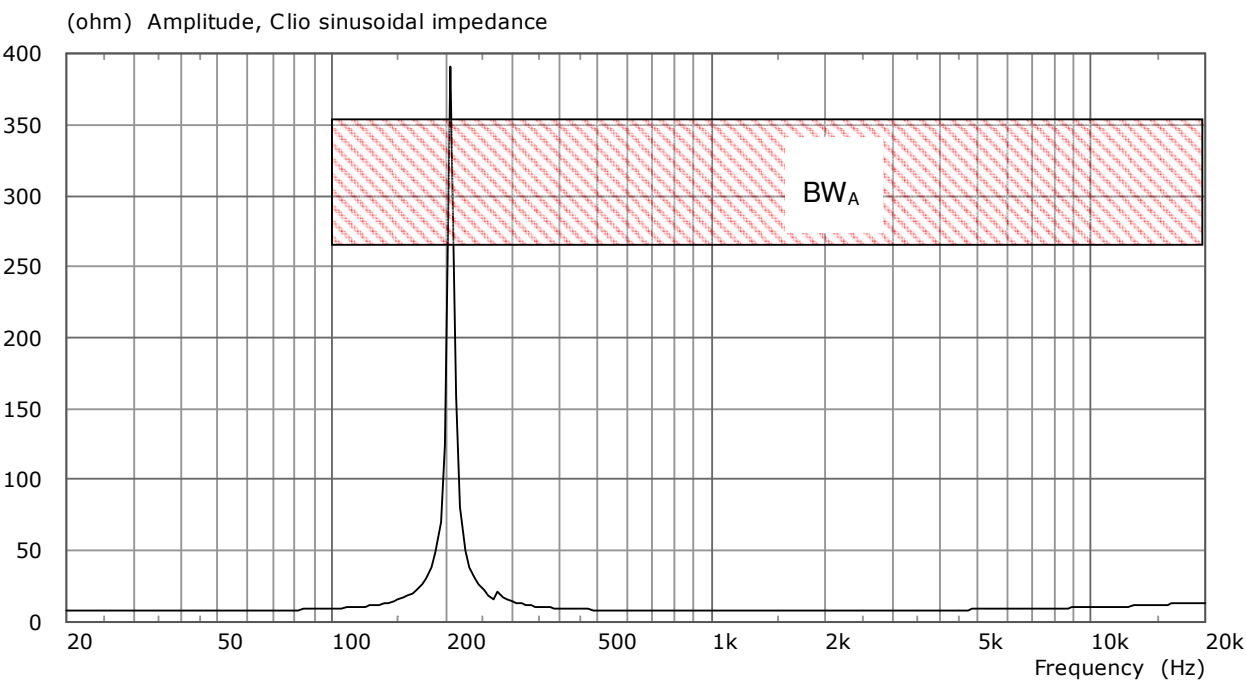


Figure 1. Impedance vs. frequency

Outline Drawing

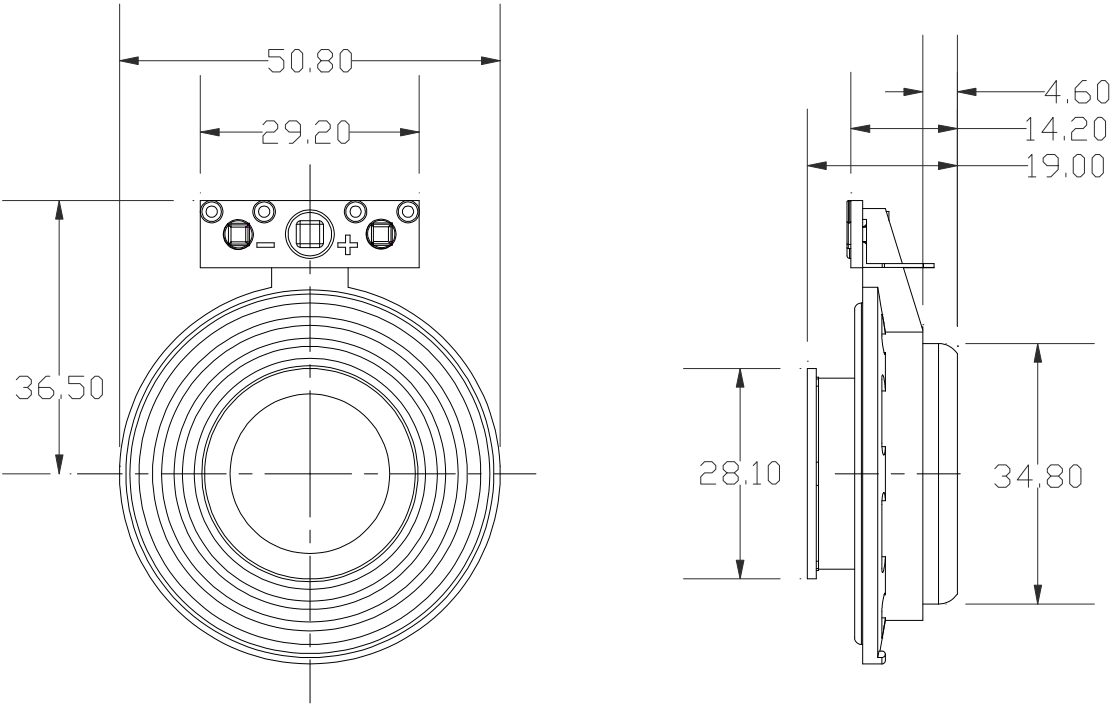


Figure 2. Nominal dimensions