

MODEL: SME250B100-8**10" BASS-MID****100W**

Description

The SME250B100 is an imported pressed steel frame 10" bass-mid loudspeaker for use in medium power musical instrument cabinets requiring a useful upper limit of 6kHz. This model offers high efficiency, and wide frequency range delivering high SPL with moderate amplifier power.

Large voice coil diameter, large ferrite magnet combined with a ribbed paper cone delivers reliability combined with excellent mid-range efficiency.

This model features a large 140mm, 1100 gram ferrite magnet. The fundamental resonant frequency has been selected to produce good low frequency performance balanced with good power handling in bass applications. The extended top end response and efficient upper mids add punch and clarity to enhance reproduction.

This driver parameters have been selected to produce a punchy bass in vented enclosures.

The SME250B100 is an economical musical instrument loudspeaker with a bright bass sound making it an excellent choice for electric bass and vocal PA applications and combo amplification.

Application

General purpose sound reinforcement applications in the frequency range 50Hz to 6KHz where high sound pressure levels are required, i.e. live music clubs, music playback systems for discos, electric-bass, public address systems and general applications.

We recommend vented enclosures of 25 to 35L litre capacity. In the correct enclosure and under controlled conditions we recommend each SME250B100 be driven by a power amplifier capable of delivering 50 to 100 watts into 8 ohms and the input processed to not exceed the maximum recommended excursion.

Refer: -SME250B100 application notes for enclosure details.



*SAMMI Korean loudspeakers proudly distributed by
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Technical Data

Typical measured Thiele/Small parameters

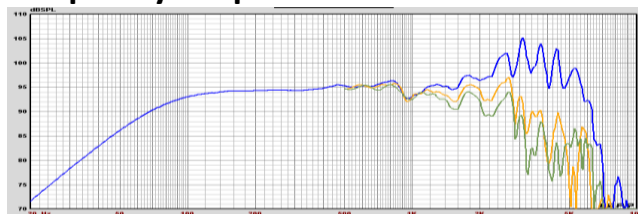
Rated power		100 watt
Rated nominal impedance	Z	8 ohms
Rated frequency range		40 – 6kHz
Piston sensitivity level		94 dB SPL
Resonance frequency		70 Hz
Mechanical Q	Qm	11.0
Electrical Q	Qe	0.62
Total spk. Q	Qts	0.59
Mechanical mass	Mmd	26 gms
Effective diaphragm diameter	D	20.9 cm
Effective diaphragm area	Sd	0.035 sq.m.
Vol. equiv to spk compliance	Vas	29.7 litres
Mechanical compliance	Cms	174 mm/N
BL product	Bl	11.6 T.m.
Voiccoil diameter	d	51 mm
Voiccoil material		copper
Voiccoil DC resistance	Re	6.4 ohms
Voiccoil inductance	Lvc	0.87 mH
Voiccoil height	Hvc	8.5 mm
Height of air-gap	Hg	6 mm
Peak linear displacement	Xpk	1.25 mm
Reference efficiency		1.6 %
Speaker total mass		2600 gms

Specifications subject to change without notice.

Notes

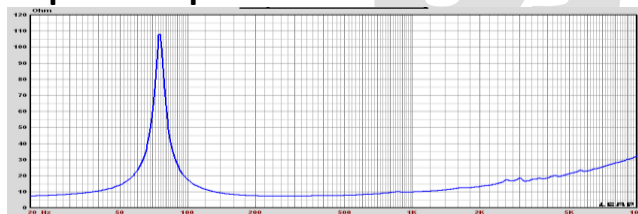
- (1) Rated power is assigned by the manufacturer.
- (2) Reference sensitivity is SPL at 1W at 1m derived from Thiele/Small parameters.
- (3) Frequency range is the useful frequency range for this transducer when mounted in its recommended enclosure.
- (4) Thiele/Small parameters are derived after the test speaker has been preconditioned.
- (5) Peak linear displacement is calculated from $(Hvc - Hg)/2$.

Frequency Response



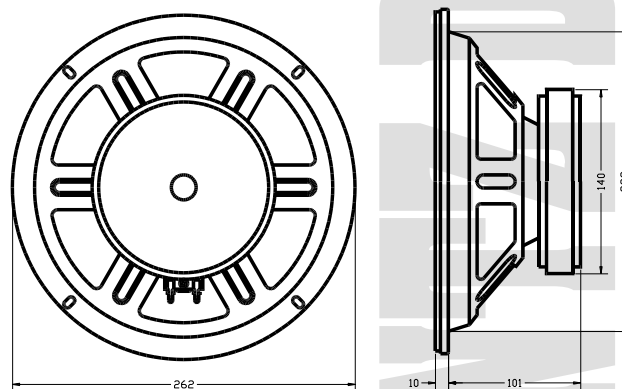
Infinite baffle sound pressure response recorded at 2.83V or nominal one watt at one meter.
 Blue curve is on axis spl response
 Orange curve is SPL at 30 degrees off axis.
 Green curve is SPL at 40 degrees off axis

Impedance plot



Free-air impedance magnitude plot.

Mounting Details



- Baffle opening diameter
 - front mounting 228 mm
 - rear mounting 228mm
- Mounting pattern:
 - four 10 x 6 mm slots equi-spaced on a 247 mm PCD.
- Flange thickness 10 mm

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