MODEL: SME380B150-8 15” BASS-MID 150W

Description

The SME380B150 is an imported pressed steel frame 15" driver for use in medium power musical instrument applications with a useful upper limit of 5kHz. This model offers high efficiency, wide frequency range achieved with an economical design.
The small voice coil diameter combined with a curvilinear paper cone delivers an extended top range for a 15" loudspeaker permitting a modest horn to achieve full coverage at minimal cost.
This model features a large 155mm ferrite magnet (50-oz).
The low resonant frequency produces excellent low frequency performance. The extended top end response, efficient upper midrange add punch and clarity which enhances reproduction.
This driver features driver parameters that produce a full rich punchy bass in both sealed and vented enclosures.
The ME380B150 is an economical driver with bright bass sound quality making it an excellent choice for vocal PA and guitar applications.

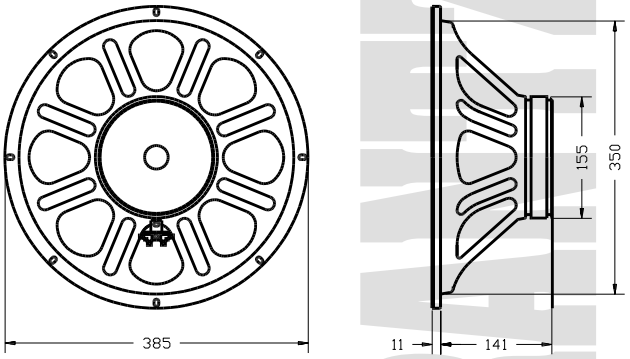
Application

This model is typical of loudspeakers employed in combo applications in the 70’s. The light cone and moderate linear travel makes this model suited to low power applications. The acoustic response complements electric guitar applications where better bass is required.
Also recommended for general purpose sound reinforcement applications, excelling in vocal applications in the frequency range 40Hz to 5KHz where high sound pressure levels are required, i.e. live music clubs, music playback systems, public address systems general applications. We recommend vented enclosures of 90 to 300 litre capacity and sealed enclosures for 60 to 90 litres. In the correct enclosure and under controlled conditions we recommend each ME380B150 be driven by a power amplifier capable of delivering 5 to 150 watts into 8 ohms, the bass output is limited by the moderate linear travel and signal processing is recommended so that the safe excursion limits are not exceeded.

Refer: -ME380B150 application notes for enclosure details.

SAMMI Korean loudspeakers proudly distributed by Lorantz Audio Services Pty. Ltd.

Mounting Details



Baffle opening diameter
front mounting 350 mm
rear mounting 350 mm
Mounting pattern:
eight 8 x 6 mm slots equi-spaced on a 368 mm PCD.
Flange thickness 10 mm

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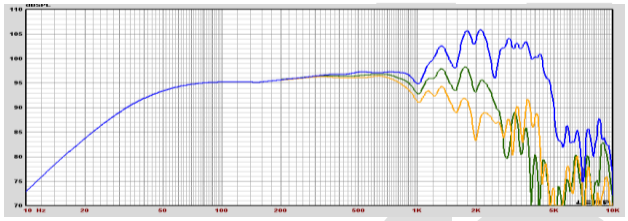
Technical Data

Typical measured Thiele/Small parameters

Power rating		=	150 watt rms
Rated nominal impedance	Z	=	8 ohms
Rated frequency range		=	30 - 5000 Hz
Piston sensitivity level		=	96.5 dBSPL
Octave band SPL pink noise		=	100 dBSPL
Resonance frequency		=	40 Hz
Mechanical Q	Qm	=	11.3
Electrical Q	Qe	=	0.56
Total spk. Q	Qts	=	0.53
Diaphrahm mass	Mmd	=	48.5 gms
Effective diaphragm diameter	D	=	32.5 cm
Effective diaphragm area	Sd	=	830 sq.cm.
Vol. equiv to spk compliance	Vas	=	272 litres
Mechanical compliance	Cms	=	270 mm/N
BL product	Bl	=	13.6 T.M.
Voicecoil diameter	d	=	63.5 mm
Voicecoil material		=	copper
Voicecoil DC resistance	Re	=	6.8 ohms
Voicecoil inductance	Lvc	=	0.90 mH
Voicecoil height		=	10 mm
Height of air-gap	Hg	=	8 mm
Peak linear displacement	Xpk	=	2.0 mm
Reference efficiency		=	2.73 %
Speaker total mass		=	5700 gms

Specifications subject to change without notice.

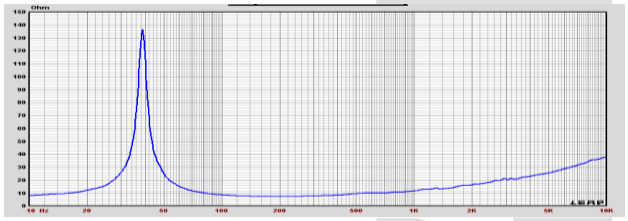
Frequency Response



Infinite baffle sound pressure response recorded at 2.83V or nominal one watt at one meter.

Blue curve is on axis spl response
Green curve is SPL at 30 degrees off axis.
Orange curve is SPL at 40 degrees off axis

Impedance plot



Free-air impedance magnitude plot.

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 Xpk is derived from Klippel XBl measurement at Bl = 82%.

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