

MODEL:AC256P75/MI/8

10" Guitar 75w

Description

A direct-radiating, electro-dynamic, ferrite-magnet loudspeaker developed to work well with modern guitar amplifiers.

The cone is produced from selected softwood, hardwood and hemp fibers; this formulation accurately reproduces each musical note with greater detail without blending.

This tonal quality and reliability is achieved under our control, and is based on prior art and over 30 years of paper cone manufacturing experience.

This model employs a PESV voice-coil wound onto a space age high temperature Kapton® bobbin resulting in a reliable 75Watt-power rating. This model offers the cleanest reproduction with the least top-end brightness in our "P" guitar range of loudspeakers.

The voice-coil is adhered to the cone body with epoxy to ensure reliable performance in demanding applications.

The loudspeaker cone, voice-coil, magnet parameters have been selected to deliver high sound pressure levels and clean detailed bright notes at high power.

This Australian hand-crafted loudspeaker is an excellent choice for today's serious musician using modern high-power amplifiers where high sound pressure levels, high power handling and excellent reliability are required.

Application

Recommended for modern guitars, modern valve and solid state amplifiers with effects for clean reproduction. This model delivers clean notes at high power, hence best choice for use with pedals and effects.

Options

Many variations to this basic model are available:

- Choice of impedance, resonance, dustcap, cone materials and treatments and various bobbin materials available.
- Recone kits and repair service available.

Please discuss your requirements with us.

Mounting Details

Baffle opening diameter

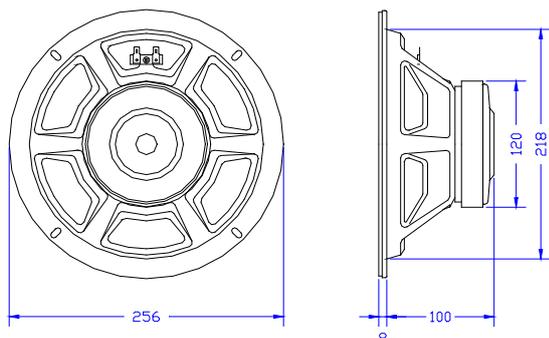
front mounting 220 mm

rear mounting 220 mm

Mounting pattern:

four 5.6 x 11.3 mm slots equi-spaced on 238 mm PCD.

Flange thickness 8 mm



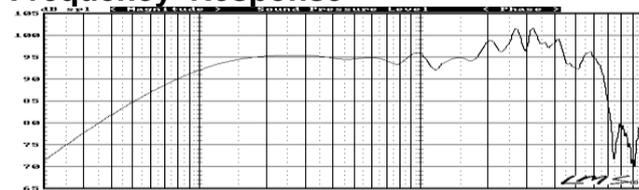
Technical Data

Typical measured Thiele/Small parameters:

Maximum program power	= 75 watt
Thermal power rating	= 75 watt rms
Rated nominal impedance	Z = 8 ohms
Rated frequency range	= 50 - 7000 Hz
Piston sensitivity level	= 96.6 dBSPL
Max SPL @ 1w	= 101 dBSPL
Resonance frequency	= 85 Hz
Mechanical Q	Qm = 13
Electrical Q	Qe = 0.46
Total spk. Q	Qts = 0.44
Moving mass	Mms = 22 gms
Effective diaphragm diameter	D = 20.0 cm
Effective diaphragm area	Sd = .0316 sq.m.
Peak linear vol. displacement	Vd = 63 ccm
Vol. equiv to spk compliance	Vas = 22.7 litres
Mechanical compliance	Cms = 159 um/N
BL product	BL = 13 T.m
Voicecoil diameter	d = 45 mm
Voicecoil material	= Copper
Voicecoil DC resistance	Re = 6.6 ohms
Voicecoil inductance @ 1kHz	Lvc = 0.95 mH
Voicecoil height	= 10.0 mm
Height of air-gap	Hg = 6 mm
Peak linear displacement	Xpk = 2.0 mm
Reference efficiency	= 2.9 %
Speaker total mass	= 2300 gms

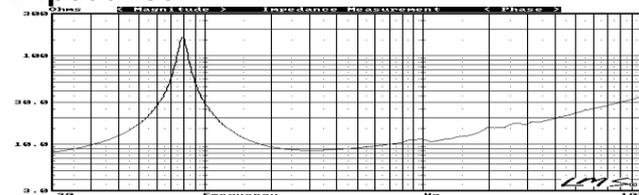
Specifications subject to change without notice.

Frequency Response



Typical LMS infinite baffle response recorded at one watt at one meter.

Impedance



Typical measured impedance plot

Refer C256P/MI application notes for enclosure details. Australian made loudspeaker.