



### MODEL:AC256P50/MI/8

### 10" Guitar 50w

#### Description

A direct-radiating, electro-dynamic, ferrite-magnet loudspeaker developed to replicate vintage 70's guitar models.

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

The cone materials and speaker parameters also achieve high efficiency bright crisp highs complemented with warm balanced low end. 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 fiber-glass bobbin to emulate the seventies sound, this prior art produces a moderate 50Watt-power rating.

The voice-coil is adhered to the cone body with a selected adhesive to ensure reliable performance but retain the seventies voicing characteristics.

This model is the popular choice of many Australian artists, well worth an audition.

This Australian hand crafted loudspeaker is an excellent choice for the serious musician where high efficiency, classic 70's performance and high reliability are desired.

#### Application

Suitable for vintage guitar coupled with a vintage style low power guitar amplifier applications. This model will deliver crunch and distress at rated power.

#### Options

Many variations to this basic model are available:

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

Please discuss your requirements with us.

#### Mounting Details

Baffle opening diameter

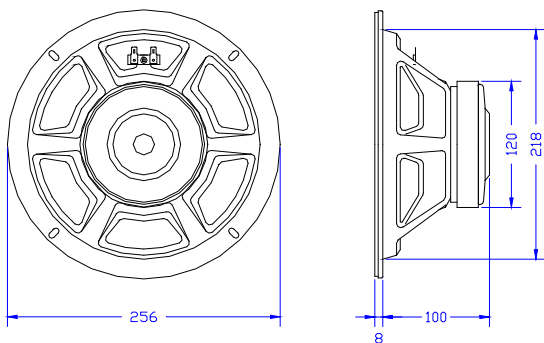
front mounting 220 mm

rear mounting 220 mm

Mounting pattern:

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

Flange thickness 8 mm



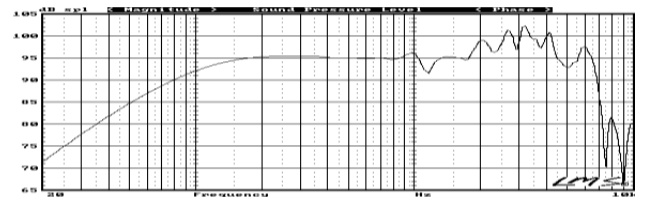
#### Technical Data

Typical measured Thiele/Small parameters:

Maximum program power	=	50 watt
Thermal power rating	=	50 watt rms
Rated nominal impedance	Z	= 8 ohms
Minimum Impedance	=	8.0 ohms
Rated frequency range	=	50Hz – 7 kHz
Piston sensitivity level	=	96.7 dB SPL
Max SPL @ 1w	=	102 dB SPL
Resonance frequency	=	85 Hz
Mechanical Q	Qm	= 11.7
Electrical Q	Qe	= 0.46
Total spk. Q	Qts	= 0.44
Moving mass	Mms	= 21.8 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	= 22.8 litres
Mechanical compliance	Cms	= 160 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	$\eta_o$	= 2.9 %
Speaker total mass	=	2.3 kgm

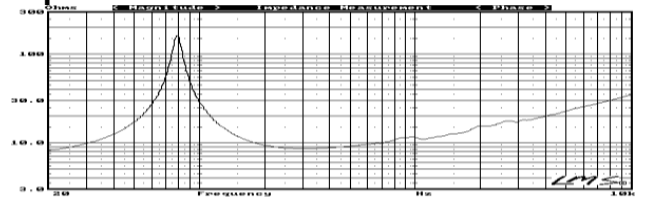
Specifications subject to change without notice.

#### Frequency Response



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

#### Impedance



Typical measured impedance plot

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