

MODEL: AC386V-B2s-8

15" BASS-MID 800W

Description

The AC386V is an Australian made light-weight economical high performance pressed steel frame 15" ferrite driver for use in medium power musical instrument cabinets requiring a useful upper limit of 3 KHz. High efficiency and wide frequency range, exceptional performance in an economical design.

The AC386V features CNC precision magnet components. The FE optimised ferrite magnet-assembly design delivers large linear voice coil excursion Xpk of 7.0mm. Aluminum shorting ring minimizes distortion, improves inductance linearity, improves stability and enhances thermal dissipation. The steel magnet parts are finished in E-coat which offers improved corrosion resistance and offers better heat transfer.

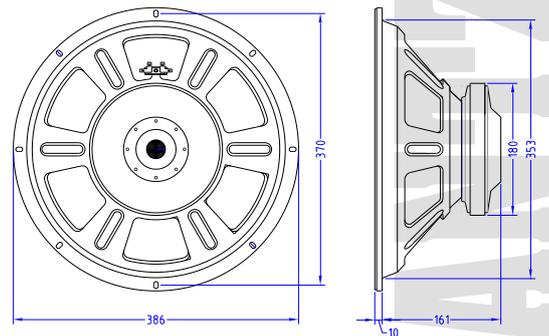
The stiff damped curvilinear cone is product of our OFP technology and is molded in-house from a blend of premium air dried wood pulp and Kevlar fibres resulting in smooth controlled mid response. The spider is made of Aramid material chosen for its high rigidity and long term stability in demanding applications. The spider and accordion cloth cone surround have been designed to match the BL linearity at extreme levels.

Reliable performance, high thermal rating is achieved with a 75mm voice coil employing high temperature adhesives and flow through magnet cooling. These features provide minimum thermal compression in demanding applications.

This model features a 180mm ferrite magnet and the driver parameters produce low frequency response with punch while maintaining efficient upper mids. This driver features driver parameters that produce a full rich punchy bass in both sealed and vented enclosures.

The AC386V is an economical driver, suitable for bass systems, general purpose applications and vocal PA applications.

This AC386V loudspeaker is engineered and hand crafted in Australia to the highest tolerances to meet the demanding requirements of professional sound reinforcement and music instrument applications.



Options

Model	Impedance
AC386V-B2-4	4 ohm
AC386V-B2-8	8 ohm
AC386V-B2-16	16 ohm

Note

This datasheet applies to our model AC386VT-B2-8

Mounting Details

- Baffle opening diameter
 - front mounting 353 mm
 - rear mounting 353 mm
- Mounting pattern:
 - eight 9 x 6 mm slots equi-spaced on a 370 mm
- PCD.
- Flange thickness 10 mm

Technical Data

Typical measured Thiele/Small parameters:

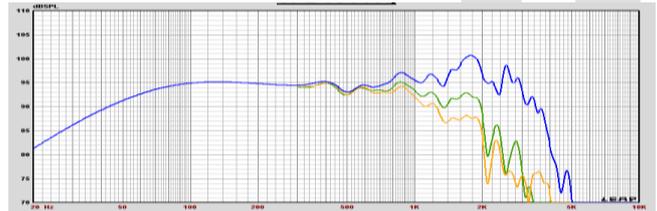
Maximum program power	=	800 watt
AES Power	=	400 watt rms
Rated nominal impedance	Z	= 8 ohms
Rated frequency range	=	30 - 3600 Hz
Sensitivity l	=	95.6 dB SPL
Resonance frequency	=	40 Hz
Mechanical Q	Qm	= 5.0
Electrical Q	Qe	= 0.46
Total spk. Q	Qts	= 0.42
Moving mass	Mmd	= 89.7 gms
Effective diaphragm diameter	D	= 33.5 cm
Effective diaphragm area	Sd	= 881 sq.cm.
Vol. equiv to spk compliance	Vas	= 160 litres
Mechanical compliance	Cms	= 0.144 mm/N
BL product	Bl	= 18.9 T.M.
Voicecoil diameter	d	= 75 mm
Voicecoil material	=	copper
Voicecoil DC resistance	Re	= 5.9 ohms
Voicecoil inductance	Lvc	= 1.9 mH
Voicecoil height	=	21 mm
Height of air-gap	Hg	= 9 mm
Peak linear displacement	Xpk	= 7.0 mm
X Damage peak to peak	Xpk-pk	= 28.0 mm
Reference efficiency	=	2.3 %
Speaker total mass	=	6.96 Kg

Specifications subject to change without notice.

Notes

- (1) AES power is determined according to AES2-1984 standard 60Hz-600Hz in free-air. Power calculated at minimum impedance.
- (2) Maximum recommended program power is twice AES power providing the safe excursion limits are not exceeded.
- (3) Sensitivity is SPL at 1W at 1m derived from Thiele/Small parameters.
- (4) Frequency range is the useful frequency range for this transducer when mounted in its recommended enclosure.
- (5) Thiele/Small parameters are derived after the speaker has been preconditioned and are a better representative of the long term parameters in use.
- (6) Peak linear displacement Xpk derived from Klippel XBL measurement at 82%.

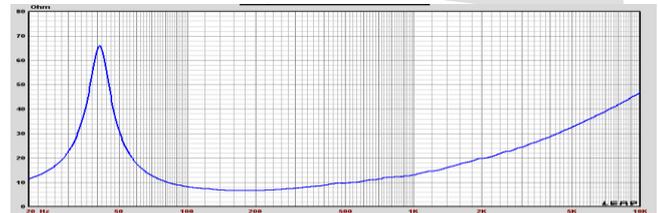
Frequency Response



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