MODEL:A-C264U/B1/8

10" BASS MID - 400W

Description

The C264U/B1 is a 10" bass loudspeaker engineered for use in professional sound reinforcement systems and musical instrument applications.

This model offers high efficiency, smooth response, wide frequency range, and the large +/- 4mm linear excursion, which permit the reproduction of extreme levels with pure fundamental bass notes.

Computer aided design, advanced Australian technology and materials result in superior performance.

The C264U range feature painted cast aluminum frame and a large efficient ferrite magnet-assembly designed to permit large linear voice coil excursions.

Our in house paper cone made from OFP technology and reinforced with Kevlar fibres provides superior rigidity for bass and also damped smooth mid-range.

Our in-house designed and manufactured spider suspension and cone surround assures extreme levels with minimal distortion and longevity.

Efficient driver parameters have been selected to produce a full rich punchy bass in vented, bandbass and horn enclosures.

Reliable performance and the high 200 watt thermal rating is achieved with a 50mm voice coil and state of the art voice coil materials and adhesives.

The C264U 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.

Application

A high efficiency, low distortion bass driver recommended for high quality sound reinforcement applications in the frequency range 40 to 4000 Hz.

Mounting Details

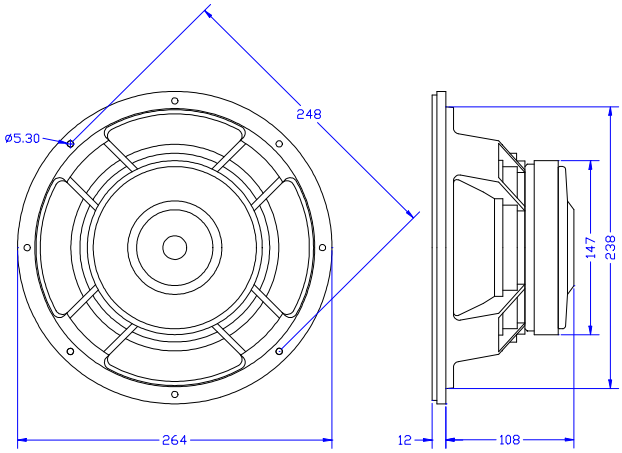
Baffle opening diameter:

front mounting	237 mm
rear mounting	235 mm

Mounting pattern:

eight 5.3mm holes eqi-spaced on a 248mm P.C.D.

Flange thickness 12mm



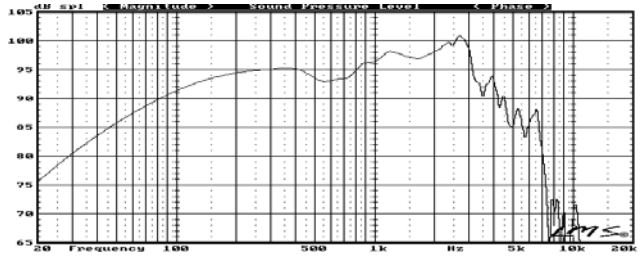
Technical Data

Typical measured Thiele/Small parameters:

Max program power	W	=	400 watt
Thermal power rating	Pe	=	200 watts rms
Rated nominal impedance	Z	=	8 ohms
Rated frequency range		=	40 - 4KHz
Piston range sensitivity level		=	97.5 dB/1W/1M
Resonance frequency	Fo	=	60 Hz
Mechanical Q	Qm	=	1.26
Electrical Q	Qe	=	0.274
Total spk. Q	Qt	=	0.225
Moving mass	Mms	=	28.3 gms
Mechanical resistance	Rms	=	N/m/s
Effective diaphragm diameter	D	=	21.5 cm
Effective diaphragm area	Sd	=	0.0363 sq.m
Peak linear vol. displacement	Vd	=	145 ccm
Vol. equiv spk compliance	Vas	=	46.5 litre
Mechanical compliance	Cms	=	248 u/N
BL product	BL	=	15.3 T.m
Voicecoil diameter	d	=	50 mm
Voice coil material		=	copper
Voice coil dc resistance	Re	=	6.2 ohms
Voice coil inductance @ 1KHz	Lvc	=	1.0 mHenry
Voice coil height		=	16 mm
Height of air-gap		=	8 mm
Peak linear displacement	Xpk	=	4 mm
Reference efficiency		=	3.5 %
Speaker total mass		=	4200 gms

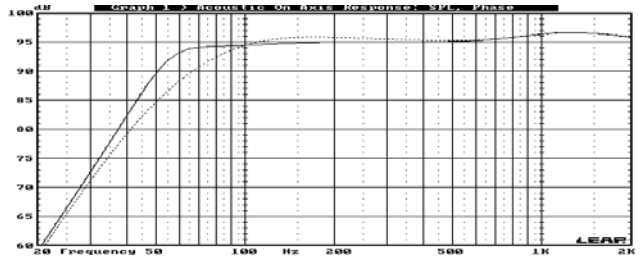
Specifications subject to change without notice.

Frequency Response



Infinite baffle response recorded at one watt at one meter.

Computer predicted bass response



The computer predicted (including box losses) half space bass response @ 1W @1M for:

(a) Single driver in a net 33 litre vented cabinet tuned to 55Hz accomplished with one 90mm PVC port 115mm long.

(b) Single driver in a net 18 litre vented cabinet tuned to 60Hz accomplished with one 90mm PVC port 218mm long.

Refer: -C264U/B1 application notes for enclosure details.