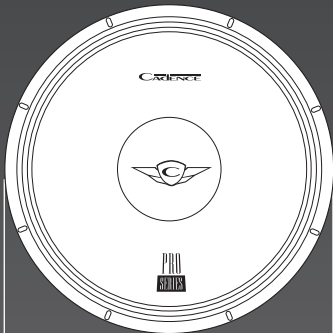
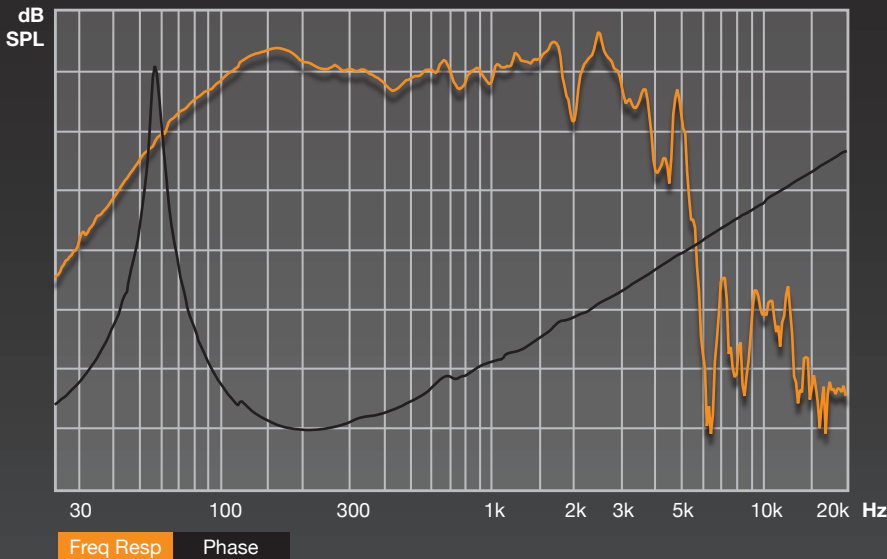


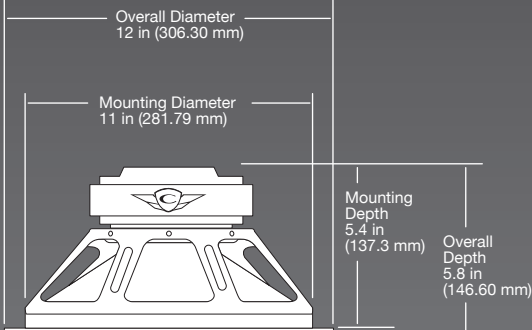
CADENCE

PRO SERIES

PRO 12X



12 in



TS PARAMETERS

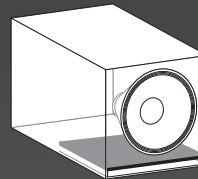
FMS: 45 Hz
QMS: 6.310
QES: 0.503
QTS: 0.466
LEVC: 684 μ H
CMS: 218.44 μ M/N
MMS: 54.888 gr
NREF: 1.73 %
BL: 13.75 T/M
SPL: 94.1 dB
VAS: 87.439 L
RE: 6.0 Ohm
RP: 8.0 Ohm
LE: 0.72 mH
XMAX: 4mm each direction

4 / 8 Ohm 800 Watts

SPECIFICATIONS

Application: Pro Audio Subwoofer
Basket Type: Steel
Dust Cap: Cloth
Surround Style: Accordion
Structure Weight: 155 oz.
2.5" High Power Voice Coil
Impedance: 4 or 8 Ohm
RMS / Peak Watts: 400 / 800
Frequency Response: 50 Hz - 4 KHz
SPL @ 1w/1m: 95 dB
Sealed Enclosure Size: 2 - 6 CuFt

ENCLOSURE STYLE:



FLATEST RESPONSE (1.5cu ft)

SIZE H x W x L

Enclosure Dim.
Inches (mm)

16" x 18" x 21"
(406 x 457 x 533)

Slot Port
Inches (mm)

2" x 18" x 10.75"
(50.8 x 457 x 273)

Circular Port (2x)
Inches (mm)

4" (circle) x 10.5"
(102 x 267)

System Gain

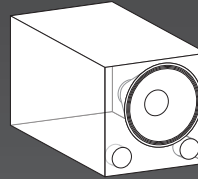
+1.91dB/89Hz

F-3

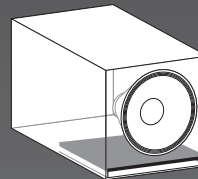
52

Tuning
Frequency

50



ENCLOSURE STYLE:



SPL (2cu ft)

SIZE H x W x L

Enclosure Dim.
Inches (mm)

21" x 20" x 20"
(533 x 508 x 508)

Slot Port
Inches (mm)

6" x 20" x 3.25"
(152.4 x 508 x 83)

Enclosure Dim.
Inches (mm)

16" x 20" x 25.75"
(406 x 508 x 655)

Circular Port (2x)
Inches (mm)

6" (circle) x 1.75"
(152.4 x 44)

System Gain

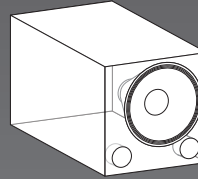
+9.38dB/90Hz

F-3

68

Tuning
Frequency

90



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BUILDING YOUR OWN ENCLOSURE

On the reverse side of this page are guidelines for the construction of two types of vented enclosures. Both types will work well with your woofer. The Flatest Response type will provide you with the smallest enclosure while the SPL type will require a larger enclosure but provide louder output.

If you decide to build your own enclosure, we strongly recommend that you “measure twice” and “cut once” - that is, always double check your measurements.

Enclosures should be constructed from MDF or particle board of at least 3/4” thickness. Be sure to glue and screw or staple your enclosure tightly - your box must be air-tight to operate properly and efficiently. Use Elmer’s brand or similar “carpenters’ glue.” Internal braces are also recommended.

The specifications page describes two sizes of enclosure for slotted and circular applications, but many others are possible. Become knowledgeable on the subject and you will be able to design other types of enclosures by plugging in the parameters supplied in this guide. Feel free to call our technical assistance line for custom box designs, or download the free box building software from “

<http://www.linearteam.dk/default.aspx/?pageid=winisd>

Don’t forget to leave a donation.

ABOUT THE SPECIFICATIONS

All FS measurements are for NEW woofers. You can expect the Fs to drop by at least 5Hz after a few hours of play.

Enclosure measurements INCLUDE woofer and port displacement.

F-3 down points are calculated by computer which models the F-3 in free air response. Typically you can expect the actual 3dB down point to be at least 10Hz lower for actual in-car response.

SPL efficiency measurements listed are done in our labs and are not to be considered an indicator of a woofer’s loudness once installed in an enclosure and powered by an amplifier.

Specifications and measurements in this document are subject to change without notice.

ABOUT THE SPECIFICATIONS

The enclosure dimensions provided may be adjusted to suit your vehicle layout, but follow our guidelines for enclosure VOLUME. For example, if the suggested dimensions for an enclosure are 12”W x 16”H x 14”D, multiplying these dimensions together will yield the volume in cubic inches, which can be divided by 1728 to yield the volume in cubic feet. If your vehicle cannot accommodate the 16” height but a 12” will fit, add the 4” difference to the width or the depth. Check your math to see if the new dimensions multiply out to the same volume.

If the port length recommended is too long to fit into your enclosure, you can bend the port in order to attain the desired length.

The suggested SLOT port sizes are based on the enclosure height, allowing you to add the port by simply reducing the size of the front panel of the enclosure by the width of the port and adding in a single piece of wood left to right in the enclosure, starting at the front panel and continuing toward the back by recommended slot depth.

For SLOT ports, you can adjust the H and W dimensions as long as the cross-sectional area of the opening remains the same. For example, if the recommended port cross section is 1.5” x 12.2”, you can change this to (for example) 3.0” x 6.1” or 4.5” x 3.05”. In all these cases, the cross-sectional area of the port is 18.3 square inches.

VOICE COIL WIRING DIAGRAMS

PARALLEL: SINGLE VOICE COIL SPEAKERS

