





Subwoofer Manual

Models: MX12D2, MX12D4 MX10D2, MX10D4

Features

- 11mm of Linear Excursion
- Dual 2 Ohm or 4 Ohm Voice Coil models
- 12" or 10" versions
- High Excursion CAE/CAD Motor Design
- KlaraForm Vented Kapton Former technology reduces distortion by reducing heat and resistance
- Glass Fiber Reinforced Cone for Increased Low End

- Phoeniroll Surround Technology promotes linear motion
- Torriform Voice Coil Technology: Effectively dissipates heat and minimizes distortion
- Nickel Plated 12 Gauge Speaker Terminal
- Optimized for Sealed Enclosures
- Powder Coated Anti-Resonant Steel Basket



Specifications

T/S Parameter	MX10D2	MX10D4	MX12D2	MX12D4
Impedance (Ohm)	Dual 2 Ohm	Dual 4 Ohm	Dual 2 Ohm	Dual 4 Ohm
Znom (Ohm)	2.0 x 2	3.6 x 2	2.0 x 2	3.6 x 2
Revc (Ohm)	1	1.8	1	1.8
FS (Hz)	50.9	51.6	38	40.7
Sd (SqM)	0.034	0.034	0.051	0.051
BL (TM)	6.02	7.9	5.96	8.24
Qms	4.105	3.27	3.514	3.3
Qes	1.085	1.09	1.049	1.217
Qts	0.858	0.819	0.808	0.889
Vas (L)	13.54	15.23	41.68	35.097
Cms (uM/N)	79.45	81.37	112.5	94.76
Mms (gms)	123.228	116.8	155.88	161.46
SPL (dB)	84	85	85	85
Voice Coil Diameter	2in - 50mm	2in - 50mm	2in - 50mm	2in - 50mm
RMS Power Handling	300 watts	300 watts	300 watts	300 watts
PEAK Power Handling	600 watts	600 watts	600 watts	600 watts
Xmax (Linear)	11mm	11mm	11mm	11mm
Driver Displacement (cf)	0.037	0.037	0.040	0.040
Overall Diameter	10.35in - 263mm	10.35in - 263mm	12.5in - 318mm	12.5in - 318mm
Mounting Diameter	9.25in - 234mm	9.25in - 234mm	11.10in - 282mm	11.10in - 282mm
Mounting Depth	3.63in - 92mm	3.63 in - 92mm	4.10in - 104mm	4.10in / 104mm

Enclosure Recommendations

SEALED	MX10D2	MX10D4	MX12D2	MX12D4
Rock / Punchy Bass (cu. Ft.)	0.5	0.5	0.5	0.5
Neutral / Good All Around	0.75	0.75	0.75	0.75
Hip Hop / Low Bass / (cu. Ft.)	1.0	1.0	1.0	1.0

Enclosure recommendations already include driver and / or port displacement.



Enclosure Examples

Sealed Enclosure / 0.5cu.ft

MX10 MX12 Qtc = 0.825 Qtc = 0.991 F3 = 59.9 Hz F3 = 55.77 Hz

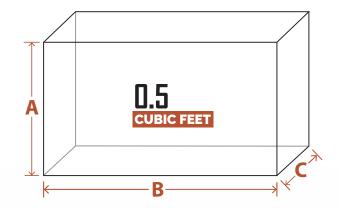
Detail	Size	Quantity
Top/Bottom	5.5" x 21.35"	2
Front/Rear	11.5" x 19.85"	2
Left/Right	5.5" x 11.5"	2

Material Thickness: 0.75 in

External Dimensions

A = 13 in B = 21.35 inC = 5.5 in

Vb = 0.5 cu.ftV(total) = 0.53 cu.ft



Sealed Enclosure / 0.75cu.ft

MX10 MX12

Qtc = 0.779 Qtc = 0.905 F3 = 57.79 Hz F3 = 51.06 Hz

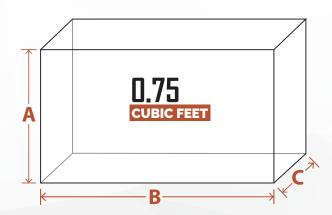
Detail	Size	Quantity
Top/Bottom	5.5" x 31.55"	2
Front/Rear	11.5" x 30.05"	2
Left/Right	5.5" x 11.5"	2

Material Thickness: 0.75 in

External Dimensions

A = 13 in B = 31.55 inC = 5.5 in

Vb = 0.75 cu.ft V(total) = 0.80 cu.ft



Sealed Enclosure / 1.0cu.ft

MX10MX12Qtc = 0.753Qtc = 0.852F3 = 56.85 HzF3 = 48.65 Hz

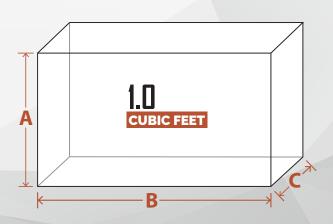
Detail	Size	Quantity
Top/Bottom	5.5" x 40.14"	2
Front/Rear	11.5" x 38.64"	2
Left/Right	5.5" x 11.5"	2

Material Thickness: 0.75 in

External Dimensions

A = 13 in B = 40.14 inC = 5.5 in

Vb = 1.0 cu.ftV(total) = 1.035 cu.ft





Sealed Slanted Enclosure / 0.5cu.ft

Properties/Parameters

Vb = 0.5 cu.ft / V(total) = 0.53 cu.ft

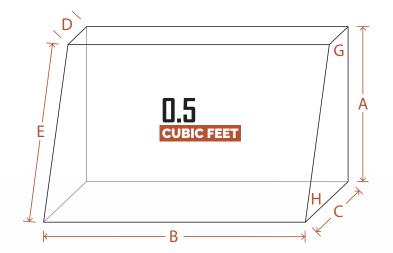
MX10 MX12 Qtc = 0.825 Qtc = 0.991 F3 = 59.9 Hz F3 = 55.77 Hz

External Dimensions

A = 14 in

B = 19.84 in Angles C = 7 in $G = 102.1^{\circ}$ D = 4 in $H = 77.91^{\circ}$

E = 14.32 in



Enclosure Details:

Material Thickness: 0.75 in

Top:

height (d) = 4.161 in width (b) = 19.84 in

cut angle (front edge only) = 12.09°

Front:

total height (e) = 12.94 in exposed surface height (n) = 12.78 in width (b) = 19.84

top/bottom cut angles = $\pm 12.09^{\circ}$

Back:

height (a) = 12.5 in width (b) = 19.84

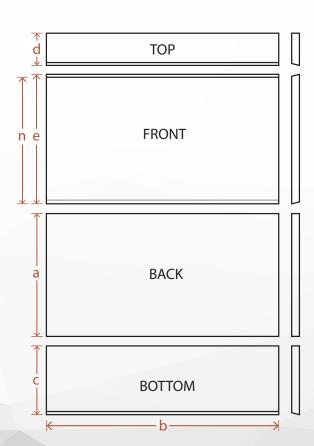
Bottom:

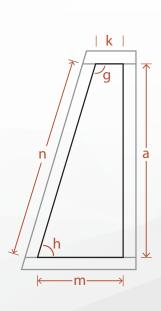
height (c) = 7 in width (b) = 19.84

cut angle (front edge only) = 12.09°

Sides (2):

top depth (k) = 2.644 in height (a) = 12.5 in bottom depth (m) = 5.322 in front length (n) = 12.78 in Angle g = 102.1°, Angle h = 77.91°







G

Sealed Slanted Enclosure / 0.75cu.ft

Properties/Parameters

Vb = 0.75 cu.ft / V(total) = 0.80 cu.ft

MX10 MX12 Qtc = 0.779 Qtc = 0.905 F3 = 57.79 Hz F3 = 51.06 Hz

External Dimensions

A = 14 in B = 29.27 in C = 7 in D = 4 in E = 14.32 inAngles $G = 102.1^{\circ}$ $H = 77.91^{\circ}$



Enclosure Details

Material Thickness: 0.75 in

Top:

height (d) = 4.161 in width (b) = 29.27 in

cut angle (front edge only) = 12.09°

Front:

total height (e) = 12.94 in exposed surface height (n) = 12.78 in width (b) = 29.27 top/bottom cut angles = \pm 12.09°

10p/bonom cor angles = ± 12.09

Back:

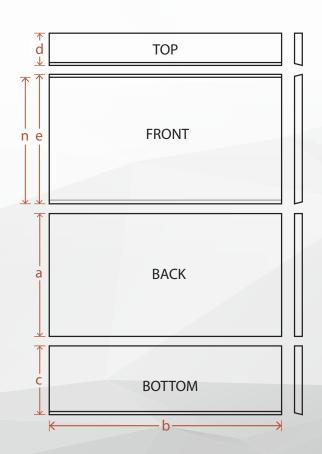
height (a) = 12.5 in width (b) = 29.27

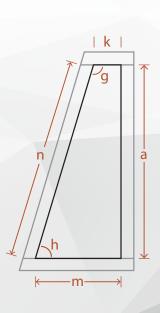
Bottom:

height (c) = 7 in width (b) = 29.27 cut angle (front edge only) = 12.09°

Sides (2):

op depth (k) = 2.644 in height (a) = 12.5 in bottom depth (m) = 5.322 in front length (n) = 12.78 in Angle g = 102.1° , Angle h = 77.91°







Sealed Slanted Enclosure / 1.0cu.ft

Properties/Parameters

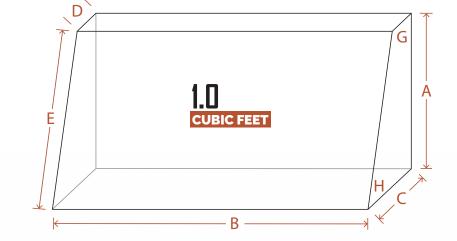
Vb = 1.0 cu.ft / V(total) = 1.035 cu.ft

MX10 MX12 Qtc = 0.753 Qtc = 0.852 F3 = 56.85 Hz F3 = 48.65 Hz

External Dimensions

A = 14 in Angles B = 37.01 in $G = 102.1^{\circ}$ C = 7 in $H = 77.91^{\circ}$

D = 4 inE = 14.32 in



Enclosure Details:

Material Thickness: 0.75 in

Top:

height (d) = 4.161 in width (b) = 37.01 in cut angle (front edge only) = 12.09°

Front:

total height (e) = 12.94 in exposed surface height (n) = 12.78 in width (b) = 37.01 top/bottom cut angles = \pm 12.09°

Back:

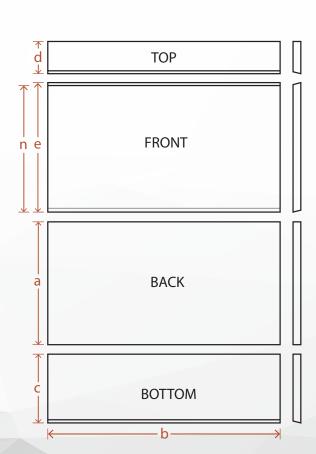
height (a) = 12.5 in width (b) = 37.01

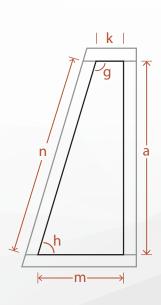
Bottom:

height (c) = 7 in width (b) = 37.01 cut angle (front edge only) = 12.09°

Sides (2):

top depth (k) = 2.644 in height (a) = 12.5 in bottom depth (m) = 5.322 in front length (n) = 12.78 in Angle g = 102.1° , Angle h = 77.91°







Speaker Wiring Diagrams

SINGLE SUBWOOFER SYSTEM

WIRED IN PARALLEL



MX12D2 / MX10D2 = 1 OHM MX12D4 / MX10D4 = 2 OHM

SINGLE SUBWOOFER SYSTEM

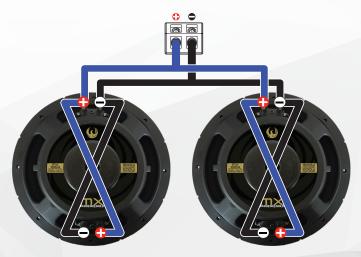
WIRED IN SERIES



MX12D2 / MX10D2 = 4 OHM MX12D4 / MX10D4 = 8 OHM

DUAL SUBWOOFER SYSTEM

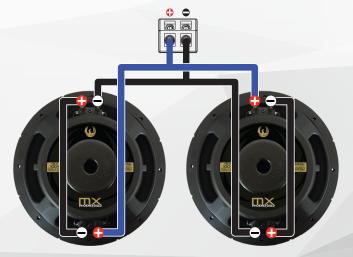
WIRED IN PARALLEL



MX12D2 / MX10D2 = 1/2 OHM MX12D4 / MX10D4 = 1 OHM

DUAL SUBWOOFER SYSTEM

WIRED IN SERIES-PARALLEL



MX12D2 / MX10D2 = 2 OHM MX12D4 / MX10D4 = 4 OHM



Phoenix Gold Product Warranty

LIMITED WARRANTY ON SUBWOOFERS

Phoenix Gold warrants this product to be free of defects in materials and workmanship for a period of one (1) years from the original date of purchase. This warranty is not transferable and applies only to the original purchaser from an authorized Phoenix Gold dealer in the United States of America only. Should service be necessary under this warranty for any reason due to manufacturing defect or malfunction, Phoenix Gold will (at its discretion), repair or replace the defective product with new or remanufactured product at no charge. Damage caused by the following is not covered under warranty: accident, misuse, abuse, burnt voice coils, used as door stops ,salad bowls or hats, product modification or neglect, failure to follow installation instructions, unauthorized repair attempts, misrepresentations by the seller. This warranty does not cover incidental or consequential damages and does not cover the cost of removing or reinstalling the unit(s). Cosmetic damage due to accident or normal wear and tear is not covered under warranty.

INTERNATIONAL WARRANTIES:

Products purchased outside the United States of America are covered only by that country's Authorized Phoenix Gold reseller and not by Phoenix Gold. Consumers needing service or warranty information for these products must contact that country's reseller for information.

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