

Specification

Nominal Basket Diameter	12", 304.8mm
Nominal Impedance*	8 ohms
Power Rating**	
Watts	250W
Music Program	500W
Resonance	43Hz
Usable Frequency Range***	66Hz-20kHz*
Sensitivity	96.7
Magnet Weight	38 oz
Gap Height	0.312", 7.92mm
Voice Coil Diameter	2", 50.8mm

Thiele & Small Parameters

Resonant Frequency (fs)	43Hz
DC Resistance (Re)	5.57
Coil Inductance (Le)	1.01mH
Mechanical Q (Qms)	6.69
Electromagnetic Q (Qes)	0.51
Total Q (Qts)	0.48
Compliance Equivalent Volume (Vas)	161 ltr/5.7 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	186cc
Mechanical Compliance of Suspension (Cms)	0.40mm/N
BL Product (BL)	10.0 T-M
Diaphragm Mass inc. Airlod (Mms)	34 grams
Efficiency Bandwidth Product (EBP)	84
Maximum Linear Excursion (Xmax)	3.5mm
Surface Area of Cone (Sd)	532.4cm ²
Maximum Mechanical Limit (Xlim)	10.4mm

Mounting Information

Recommended Enclosure Volume	
Sealed	42.5-28 ltr/1-1.5 cu. ft.
Vented	37-71 ltr/1.3-2.5 cu. ft.
Overall Diameter	12.03", 305.5mm
Baffle Hole Diameter	10.95", 278.1mm
Front Sealing Gasket	Fitted as Standard
Rear Sealing Gasket	Fitted as Standard
Mounting Holes Diameter	0.25", 6.4mm
Mounting Holes B.C.D.	11.59", 294.3mm
Depth	4.47", 114mm
Net Weight	7.8 lbs, 3.5 kg
Shipping Weight	10 lbs, 4.5 kg

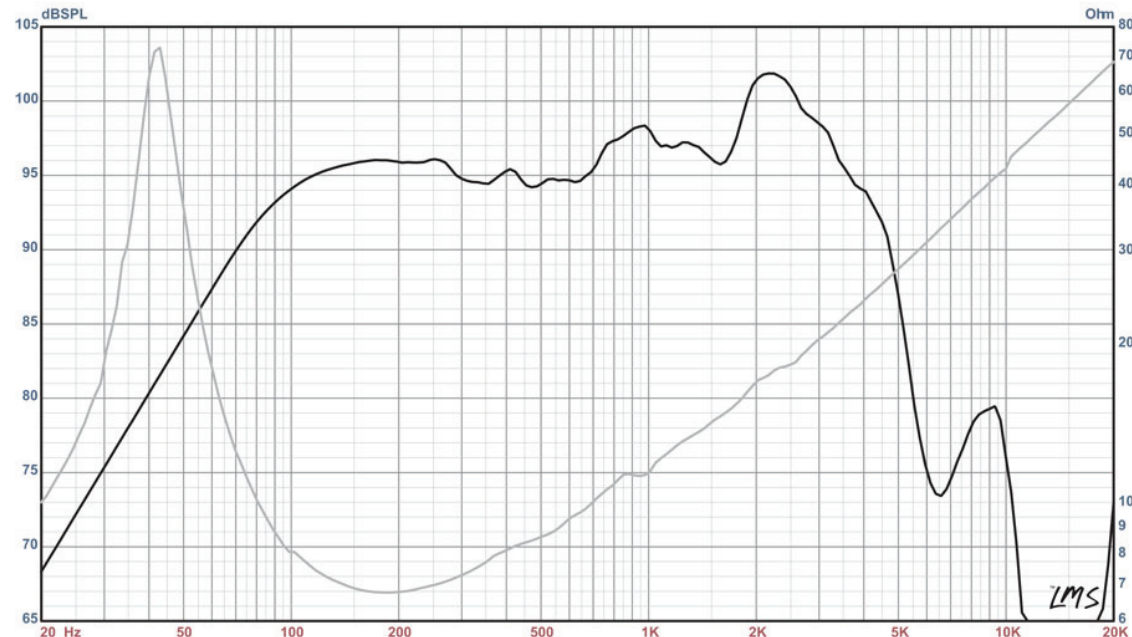
Materials of Construction

Coil Construction	Copper
Coil	Polyimide
Magnet Composition	Ferrite
Core Details	Extended
Basket Materials	Pressed Steel
Cone Composition	Paper
Cone Edge Composition	Cloth
Dust Cap Composition	Screened Cloth



BETA-12CX American Standard Series

Recommended for professional audio as a mid-bass in either vented, or sealed satellite or floor monitor enclosures. Also works nicely in vented two-way enclosures used for small coverage areas.



* Please inquire about alternative impedances.

** Multiple units exceed published rating evaluated under EIA 426A noise source and test standard while in a free-air, nontemperature-controlled environment.

*** The average output across the usable frequency range when applying 1W/1m into the nominal impedance. I.e: 2.83 V/8 ohms, 4 V/16 ohms.

Eminence response curves are measured under the following conditions: All speakers are tested at 1W/1m using a variety of test set-ups for the appropriate impedance | LMS using 0.25" supplied microphone (software calibrated) mounted 1m from wall/baffle | 2 ft. X 2 ft. baffle is built into the wall with the speaker mounted flush against a steel ring for minimum diffraction | Hafler P1500 Trans-Nova amplifier | 2700 cu.ft. chamber with fiberglass on all six surfaces (three with custom-made wedges)