EMINENCE®

The Art and Science of Sound

COMMONWEALTH™ 12

PATRIOT™

common-wealth n. clean, warm, full, non-distorted, un-adulterated guitar tone.

Coloration: Warm and rich, but also very clean and well defined. Great presence! Very full and smooth. Very little cone break-up, but likes Overdrive.

Genre: All Genres

Specification

Nominal Basket Diameter	12”, 304.8mm
Nominal Impedance*	8 ohms
Power Rating**	225W
Resonance	50Hz
Usable Frequency Range***	50Hz-4kHz
Sensitivity	100
Magnet Weight	109 oz.
Gap Height	0.29”, 7.2mm
Voice Coil Diameter	4”, 101.6mm

Thiele & Small Parameters

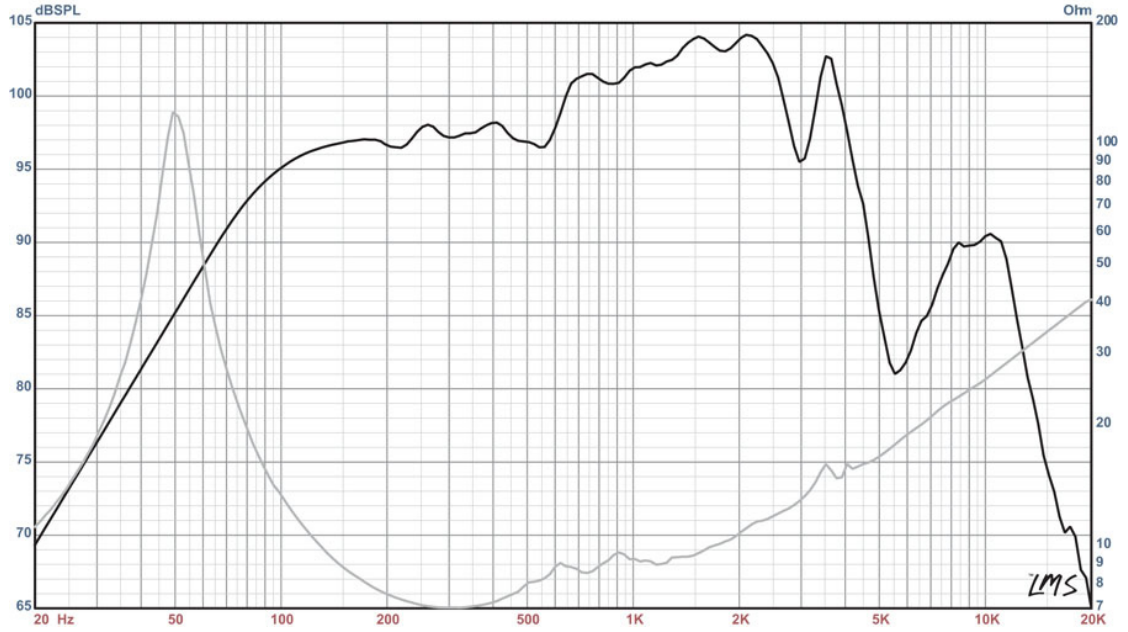
Resonant Frequency (fs)	50Hz
DC Resistance (Re)	6.34
Coil Inductance (Le)	0.46mH
Mechanical Q (Qms)	6.61
Electromagnetic Q (Qes)	0.35
Total Q (Qts)	0.33
Compliance Equivalent Volume (Vas)	90 liters / 3.2 cu. ft.
Peak Diaphragm Displacement Volume (Vd)	36cc
Mechanical Compliance of Suspension (Cms)	0.24mm/N
BL Product (BL)	15.7 T-M
Diaphragm Mass inc. Airload (Mms)	43 grams
Efficiency Bandwidth Product (EBP)	143
Maximum Linear Excursion (Xmax)	0.7mm
Surface Area of Cone (Sd)	519.5 cm2
Maximum Mechanical Limit (Xlim)	

Mounting Information

Recommended Enclosure Volume	
Sealed	Acceptable
Vented	Acceptable
Overall Diameter	12.28”, 312.0mm
Baffle Hole Diameter	11.08”, 281.3mm
Front Sealing Gasket	fitted as standard
Rear Sealing Gasket	
Mounting Holes Diameter	0.27”, 6.8mm
Mounting Holes B.C.D.	11.69”, 297.0mm
Depth	5”, 127mm
Net Weight	21.5 lbs., 9.8 kg
Shipping Weight	23.2 lbs., 10.5 kg

Materials of Construction

Aluminum voice coil
Polyimide former
Ferrite magnet
Vented core
Die-cast aluminum basket
Paper Cone
Cloth cone edge
Aluminum dust cap



* Please inquire about alternative impedances.

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

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

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 | 2ft. X 2ft. 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)