Subject: 3 Pi speaker driver selections
Posted by worlick on Wed, 01 Feb 2017 01:06:13 GMT
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Driver selection question...
For the 3 Pi speaker build, the Eminence Delta 12 LF is a suggested option... I look to a Canadian supplier and there are two options, neither exact?
One is an Eminence Delta 12 LFA the other a LFC, same size and price, but very different parameters? Which would be more suitable?

12 LFA----------

SPECIFICATIONS
Nominal Diameter: 12", 304.8mm
Nominal Impedance: 8 ohms
Power: 500w rms, 1000w program
Freq. Response: 44.0 Hz-3 kHz
Sensitivity: 94.6 db 1w/1m
Magnet Weight: 56.0 oz, 1588 grams
Gap Height 0.375", 9.53mm
Voice Coil Diameter 2.5", 63.5mm

MOUNTING INFORMATION
Recommended Enclosure Volume
- Sealed: 19.8-28.0 L, 0.7-1.0 cuft
- Vented: 25.5-102 L, 0.9-3.6 cuft
Overall Diameter: 12.03", 305.5mm
Baffle Hole Diameter: 10.95", 278.1mm
Number of Mounting Holes: 8
Mounting Hole Diameter: 0.25", 6.4mm
Mounting Hole BCD: 11.59", 294.3mm
Depth: 5.35", 136mm
Net Weight: 11.8 lbs, 5.4 kg
Shipping Weight: 14.0 lbs, 6.4 kg
T/S PARAMETERS
Fs: 51.0 Hz
Re: 6.06 ohms
Le: 1.45 mH
Qms: 7.28
Qes: 0.51
Qts: 0.47
Vas: 67.9 L, 2.4 cuft
Vd: 243.0 cc
Cms: 0.19 mm/N
BL: 14.1 Tm
Mms: 51.0 grams
EBP: 100.0
Xmax: 4.8 mm

Sd: 506.7 cm2
Xlim: 13.5 mm

CONSTRUCTION
-Copper voice coil on polyimide voice coil former
-Ferrite magnet with vented and extended core
-Pressed steel basket
-Paper cone with cloth accordion edge
-Solid composition paper dust cap

or LFC----------

SPECIFICATIONS
Nominal Diameter: 12", 304.8mm
Nominal Impedance: 4 ohms
Power: 500w rms, 1000w program
Freq. Response: 45.0 Hz-2.3 kHz
Sensitivity: 93.1 db 1w/1m
Magnet Weight: 56.0 oz, 1588 grams
Gap Height 0.375", 9.53mm
Voice Coil Diameter 2.5", 63.5mm

MOUNTING INFORMATION
Recommended Enclosure Volume
- Sealed: 21.0-74.0 L, 0.7-2.6 cuft
- Vented: 28.0-110.0 L, 1.0-3.9 cuft
Overall Diameter: 12.03", 305.5mm
Baffle Hole Diameter: 10.95", 278.1mm
Number of Mounting Holes: 8
Mounting Hole Diameter: 0.25", 6.4mm
Mounting Hole BCD: 11.59", 294.4mm
Depth: 5.88", 149.35mm
Net Weight: 11.8 lbs, 5.4 kg
Shipping Weight: 14.0 lbs, 6.4 kg
T/S PARAMETERS
Fs: 52.0 Hz
Re: 3.2 ohms
Le: .94 mH
Qms: 8.21
Qes: 0.47
Qts: 0.44
Vas: 63.7 L, 2.3 cuft
Vd: 249.0 cc
Cms: 0.17 mm/N
BL: 10.9 Tm
Mms: 53.0 grams
EBP: 111.4
Xmax: 4.8 mm

Sd: 519.5 cm2
Xlim: 13.5 mm

CONSTRUCTION
-Copper voice coil on kapton voice coil former
-Ferrite magnet with vented and extended core
-Pressed steel basket
-Paper cone with cloth accordion edge
-Solid compostion paper dust cap