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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 cm<sup>2</sup>

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 cm<sup>2</sup>

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 composition paper dust cap
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