

MONACOR SPH-450TC

Single driver data

Name

MONACOR SPH-450TC

☐ fs [Hz]

19.429377

☒ Mms [g]

305

☒ Cms [mm/N]

0.22

☐ Vas [liter]

488.05613

☒ Sd [cm²]

1250

☒ BI [N/A]

32.4

☒ Re [ohm]

7.4

☐ Qes

0.26247037

☒ Rms [Ns/m]

12.9

☐ Qts

0.24059211

Le [mH]

4.6

Le loss [0-1]

1

Driver limits

Xmax [mm]

12.9

Pmax [W]

1000

of drivers

2

in series

1

Isobaric mounting

☒ No

☐ In pair(s)

Equivalent driver data

Compliance: 0.11 mm/N

Moving mass: 559 g

Diameter: 398.9 mm, 15.71"

Qms: 2.886

Vmax: 3225 ml

Sensitivity: 99.76 dB

☐ Show kr=1

Added pathway [mm]

0

Delay: 0 µs

Voice coil temp [°C]

20

Actual Re=3.7 ohm

Suggestion

Vb = 245.4liter

fp = 29.41 Hz

Apply

Design formula source

☐ Öhman

☒ Keele

☐ Margolis/Small

Vent 1

Sp [cm²]

50.265482

fp [Hz]

29.41

diameter [mm]

80

Qp

20

Vent properties

Air mass: 0.8905 g

Effective port length: 141.5 mm

Actual port length: 73.47 mm

Vent encloses 0.7386 l of air

☐ Passive radiator

of vents

2

☐ Show kr=1

