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## KEY FEATURFS

- Real 800 w AES power handling
- Sensitivity: 100 dB @ 2.83 v
- 4" duo technology voice coil
- Forced air convection circuit for low power compression
- Extende controlled displacemente: Xmax $\pm 7.5 \mathrm{~mm}$
- Massive mechanical displacement capability: $52 \mathrm{~mm} \mathrm{p}-\mathrm{p}$


## TECHNICAL SPECIFICATIONS

| Nominal diameter | 380 mm .15 in. |  |
| :--- | ---: | ---: |
| Rated impedance | 8 ohms |  |
| Minimum impedance | 6.2 ohms |  |
| Power capacity* | 800 w AES |  |
| Program power |  | 1600 w |
| Sensitivity | 100 dB | $2.83 \mathrm{v} @ 1 \mathrm{~m} @ 2 \pi$ |
| Frequency range | $30-5000 \mathrm{~Hz}$ |  |
| Recom. enclosure vol. | $40 / 150 \mathrm{l}$ |  |
| Voice coil diameter | $1.4 / 5.3 \mathrm{ft}.{ }^{3}$ |  |
| Magnetic assembly weight | 100 mm .4 in. |  |
| BL factor | 4.62 kg .10 .16 lb. |  |
| Moving mass | $23 \mathrm{~N} / \mathrm{A}$ |  |
| Voice coil length | 0.099 kg. |  |
| Air gap height | 20 mm |  |
| X damage (peak to peak) | 12 mm |  |
|  |  | 52 mm |

## THIELE-SMALL PARAMETERS

| Resonant frequency, fs | 35 Hz |
| :--- | ---: |
| D.C. Voice coil resistance, Re | 5.2 ohms. |
| Mechanical Quality Factor, Qms | 8.00 |
| Electrical Quality Factor, Qes | 0.22 |
| Total Quality Factor, Qts | 0.21 |
| Equivalent Air Volume to Cms, Vas | 217 I |
| Mechanical Compliance, Cms | $201 \mu \mathrm{~m} / \mathrm{N}$ |
| Mechanical Resistance, Rms | $2.3 \mathrm{~kg} / \mathrm{s}$ |
| Efficiency, $\boldsymbol{\eta}$ (\%) (\%) | 4.5 |
| Effective Surface Area, Sd (m²) | $0.0880 \mathrm{~m}^{2}$ |
| Maximum Displacement, Xmax** | $7.5 \mathrm{~mm}^{\star \star}$ |
| Displacement Volume, Vd | $660 \mathrm{~cm}^{3}$ |
| Voice Coil Inductance, Le @ 1 kHz | 1.3 mH |

FREQUENGY RESPONSEAND DISTORTION



## DIMENSION DRAWINGS



## MOUNTING INFORMATION

| Overall diameter | 388 mm. | 15.28 in. |
| :--- | ---: | ---: |
| Bolt circle diameter | 370 mm. | 14.57 in. |
| Baffle cutout diameter: |  |  |
| - Front mount | 349.5 mm. | 13.76 in. |
| - Rear mount | 355 mm. | 13.98 in. |
| Depth | 157.5 mm. | 6.2 in. |
| Volume displaced by driver | 5.5 I | $0.19 \mathrm{ft}{ }^{3}$ |
| Net weight | 3.6 kg. | 7.92 lb. |
| Shipping weight | 4.6 kg. | 10.12 lb. |

Notes:
*The power capacity is determined according to AES2-1984 (r2003) standard.
Program power is defined as the transducer's ability to handle normal music program material.
**T-S parameters are measured after an exercise period using a preconditioning power test.
**The Xmax is calculated as (Lvc - Hag)/2 + Hag/3.5, where Lvc is the voice coil length and Hag is the air gap height.

## FREE AIR IMPEDANCE CURVE



Note: on axis frequency response measured with loudspeaker standing on infinite baffle in anechoic chamber, 1w@1m.

