



E20

PROFESSIONAL SERIES

2460

 8 Ω 

8" . 20cm

Low Midrange Driver

High Sensitivity

Very High Sounding Quality

APPLICATIONS

Low midrange transducer dedicated to the reproduction of 80-4000Hz frequencies. The medium power handling capacity version of the 2440. Its design gives priority to precision in the midrange band.

FEATURES

Power handling capacity
Reference efficiency (1W @ 1m)
SPL max (continuous)
Usable frequency range
Environmental withstanding

160 W AES
96 dB SPL
114 dB SPL
80-4000 Hz
Outdoor

2460

8" ■ 20 cm Low Midrange Driver

2460

TYPICAL CHARACTERISTICS

| | | | |
|--|--------|-------------|----------|
| Rated impedance | Z | 8 | Ω |
| Reference efficiency (1 W@1 m) | - | 96 | dB SPL |
| Usable frequency range ¹ | - | 80-4000 | Hz |
| Power handling capacity ² | (AES) | 160 | W |
| Max Sound Pressure Level ³ | SPLmax | 114 | dB SPL |
| Min. impedance modulus | Zmin | 5.4 @ 410Hz | Ω |
| Voice-coil inductance ⁴ @ 1 kHz | Le1k | 0.69 | mH |
| @ 10 kHz | Le10k | 0.38 | mH |
| Bl product | BL | 10,4 | N/A |
| Moving mass | Mms | 0.020 | Kg |

THIELE-SMALL PARAMETERS : TYPICAL (QC LIMITS)

| | | | |
|----------------------------------|----------------------|------------|--------------------------|
| Resonance frequency ⁵ | Fs | 81(±12) | Hz |
| DC resistance ⁶ | Re | 5.2 (±0.6) | Ω |
| Mechanical quality factor | Qms | 4.1 | 1 |
| Electrical quality factor | Qes | 0.49 | 1 |
| Total quality factor | Qts | 0.44 | 1 |
| Mechanical suspension compliance | Cms | 200 | 10^{-6} m/N |
| Effective piston area | Sd | 0.0219 | m ² |
| Equivalent Cas air load | Vas | 0.0130 | m ³ |
| Max. linear excursion | Xmax | ±5.0 | mm |
| Linear displacement volume | Vd | 0.110 | 10^{-3} m ³ |
| Half-space efficiency | | 1.4 | % |
| Unity load volume | Vas Qts ² | 2.5 | 10^{-3} m ³ |

ABSOLUTE MAXIMUM RATINGS

| | | | |
|--|------|------------|----|
| Short term max. input voltage ⁷ | Vmax | 70 | V |
| Max. excursion before damage | Xdam | ±10 | mm |
| Ambient operating temperature | | -10 to +50 | °C |
| Storage temperature ⁸ | | -20 to +70 | °C |
| Environmental conditions ⁹ | | Outdoor | |

APPLICATION INFORMATION

| | | | |
|---|-------|--|--------------------------|
| Air volume occupied by the driver ¹⁰ | | 0.720 | 10^{-3} m ³ |
| Speaker net mass | | 4.480 | Kg |
| Recommended reflex box | Vb/Fb | 10 / 80 | L / Hz |
| Electrical polarity | | A positive voltage applied on the red terminal produces forward cone motion. | |

SPECIFICATION NOTES

Note 1 : Allowing for energy response, excursion capability, Power spectrum, and -3dB low freq. roll-off for standard reflex tuning.

Note 2 : Established at 20°C ambient temp, according to AES2-1984 standard using IEC268-1 simulated programme signal and a 10 liter Bass-Reflex test enclosure tuned at 80Hz.

Note 3 : Established at 1m on axis of the loudspeaker mounted in test enclosure, when driven at full AES Power Handling Capacity, including 4dB of thermal compression loss.

Note 4 : Measured at 20 mA in free air.

Note 5 : Measured at 20 mA and 20°C ambient temp. in free air conditions, after full run and rest.

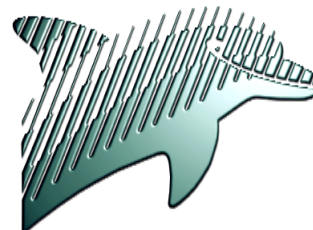
Note 6 : Measured at 20°C ambient temp. QC limits are ±10 %

Note 7 : Stated in RMS voltage according to IEC 268-5.

Note 8 : Includes shipping conditions. The lower limit prevents from demagnetization.

Note 9 : Our products are classified in three categories : Indoor, Outdoor, and Outdoor+ for permanent outdoor use or severe conditions.

Note 10 : Calculated for front mounting on to a 18 mm thick board.



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