



M25

PROFESSIONAL SERIES

3860

 8 Ω 

10" . 25cm

Midrange Driver - Very High SPL
Very High Sounding Quality

APPLICATIONS

Midrange transducer dedicated to the reproduction of 120-3000Hz frequencies. Equipped with a progressive wave diaphragm for precise transcription of the mid-range band. For horn loaded application.

FEATURES

Power handling capacity	250 W AES
Reference efficiency (1W @ 1m)	101 dB SPL
SPL max (continuous)	121 dB SPL
Usable frequency range	120-3000 Hz
Environmental withstanding	Outdoor

3860

10" ■ 25 cm Midrange Driver

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TYPICAL CHARACTERISTICS

Rated impedance	Z	8	Ω
Reference efficiency (1 W@1 m)	-	101	dB SPL
Usable frequency range ¹	-	120-3000	Hz
Power handling capacity ²	(AES)	250	W
Max Sound Pressure Level ³	SPLmax	121	dB SPL
Min. impedance modulus	Zmin	4.9 @ 500Hz	Ω
Voice-coil inductance ⁴ @ 1 kHz	Le1k	0.94	mH
@ 10 kHz	Le10k	0.54	mH
Bl product	BL	20.8	N/A
Moving mass	Mms	0.035	Kg

THIELE-SMALL PARAMETERS : TYPICAL (QC LIMITS)

Resonance frequency ⁵	Fs	75(±15)	Hz
DC resistance ⁶	Re	4.6 (±0.5)	Ω
Mechanical quality factor	Qms	3.9	1
Electrical quality factor	Qes	0.18	1
Total quality factor	Qts	0.17	1
Mechanical suspension compliance	Cms	130	10^{-6} m/N
Effective piston area	Sd	0.0373	m ²
Equivalent Cas air load	Vas	0.025	m ³
Max. linear excursion	Xmax	±2.0	mm
Linear displacement volume	Vd	0.075	10^{-3} m ³
Half-space efficiency		5.8	%
Unity load volume	Vas Qts ²	0.7	10^{-3} m ³

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage ⁷	Vmax	100	V
Max. excursion before damage	Xdam	±5	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		2.0	10^{-3} m ³
Speaker net mass		8.240	Kg
Recommended reflex box	Vb/Fb	4-6 / Sealed	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 4-6 liter sealed test enclosure with a 2nd order high-pass filter @ 300Hz.

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.

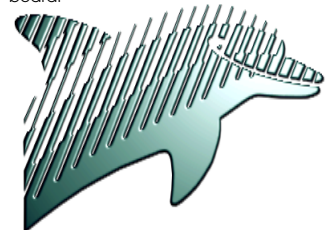
Note 6 : Measured at 20°C ambient temp. QC limits are ±10 %

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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