



M25

PROFESSIONAL SERIES

3040

 8 Ω 

10" . 25cm
Midrange Driver - High SPL
Very High Sounding Quality

APPLICATIONS

Midrange transducer dedicated to the reproduction of 150-5000Hz frequencies. Equipped with a progressive wave diaphragm for precise transcription of the mid-range band.

Usable either for direct radiation in small volumes from 4L to 6L or for horn loaded application.

FEATURES

Power handling capacity	160 W AES
Reference efficiency (1W @ 1m)	100 dB SPL
SPL max (continuous)	118 dB SPL
Usable frequency range	150-5000 Hz
Environmental withstanding	Outdoor

3040

10" ■ 25 cm Midrange Driver

3040

TYPICAL CHARACTERISTICS

Rated impedance	Z	8	Ω
Reference efficiency (1 W@1 m)	-	100	dB SPL
Usable frequency range ¹	-	150-5000	Hz
Power handling capacity ²	(AES)	160	W
Max Sound Pressure Level ³	SPLmax	118	dB SPL
Min. impedance modulus	Zmin	6.3 @ 260Hz	Ω
Voice-coil inductance ⁴ @ 1 kHz	Le1k	1.13	mH
@ 10 kHz	Le10k	0.56	mH
Bl product	BL	14.3	N/A
Moving mass	Mms	0.027	Kg

THIELE-SMALL PARAMETERS : TYPICAL (QC LIMITS)

Resonance frequency ⁵	Fs	86(\pm 17)	Hz
DC resistance ⁶	Re	6.0 (\pm 0.6)	Ω
Mechanical quality factor	Qms	4.6	1
Electrical quality factor	Qes	0.43	1
Total quality factor	Qts	0.39	1
Mechanical suspension compliance	Cms	130	10^{-6} m/N
Effective piston area	Sd	0.0373	m ²
Equivalent Cas air load	Vas	0.024	m ³
Max. linear excursion	Xmax	\pm 2.0	mm
Linear displacement volume	Vd	0.075	10^{-3} m ³
Half-space efficiency		3.5	%
Unity load volume	Vas Qts ²	3.8	10^{-3} m ³

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage ⁷	Vmax	70	V
Max. excursion before damage	Xdam	\pm 5	mm
Ambient operating temperature		-10 to +50	$^{\circ}$ C
Storage temperature ⁸		-20 to +70	$^{\circ}$ C
Environmental conditions ⁹		Outdoor	

APPLICATION INFORMATION

Air volume occupied by the driver ¹⁰		1.1	10^{-3} m ³
Speaker net mass		5.020	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 $^{\circ}$ 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 $^{\circ}$ C ambient temp. in free air conditions, after full run and rest.

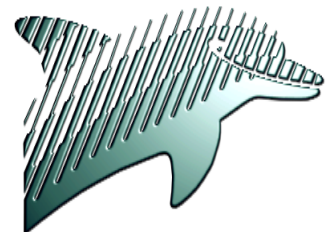
Note 6 : Measured at 20 $^{\circ}$ C ambient temp. QC limits are \pm 10 %

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.



PHL
A U D I O

461, rue des chênes .Z.A
77590 CHARTRETTES
FRANCE

Tél : 33 01 64 81 29 80

Fax : 33 01 60 69 10 28

e-mail : phaudio@phaudio.com

<http://www.phaudio.com>