



B25

PROFESSIONAL SERIES

3420 $6\ \Omega$



10" . 25cm

Low Frequency Driver

High Power Handling Capacity

High Sounding Quality

APPLICATIONS

Low frequency transducer dedicated to the reproduction of 50-3000Hz frequencies. Usable for direct radiation in small volumes from 20L tuned at 70 Hz. SPL and bass extension balanced.

FEATURES

Power handling capacity	300 W AES
Reference efficiency (1W @ 1m)	96 dB SPL
SPL max (continuous)	117 dB SPL
Usable frequency range	50-3000 Hz
Environmental withstanding	Outdoor

3420

10" ■ 25 cm Low Frequency Driver

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TYPICAL CHARACTERISTICS

Rated impedance	Z	6	Ω
Reference efficiency (1 W@1 m)	-	96	dB SPL
Usable frequency range ¹	-	50-3000	Hz
Power handling capacity ²	(AES)	300	W
Max Sound Pressure Level ³	SPLmax	117	dB SPL
Min. impedance modulus	Zmin	4.4 @ 310Hz	Ω
Voice-coil inductance ⁴ @ 1 kHz	Le1k	0.87	mH
@ 10 kHz	Le10k	0.49	mH
Bl product	BL	15.5	N/A
Moving mass	Mms	0.046	Kg

THIELE-SMALL PARAMETERS : TYPICAL (QC LIMITS)

Resonance frequency ⁵	Fs	50(±7)	Hz
DC resistance ⁶	Re	4.2 (±0.5)	Ω
Mechanical quality factor	Qms	4.7	1
Electrical quality factor	Qes	0.25	1
Total quality factor	Qts	0.24	1
Mechanical suspension compliance	Cms	220	10^{-6} m/N
Effective piston area	Sd	0.0356	m ²
Equivalent Cas air load	Vas	0.039	m ³
Max. linear excursion	Xmax	±5.5	mm
Linear displacement volume	Vd	0.196	10^{-3} m ³
Half-space efficiency		1.9	%
Unity load volume	Vas Qts ²	2.2	10^{-3} m ³

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage ⁷	Vmax	85	V
Max. excursion before damage	Xdam	±12	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		1.5	10^{-3} m ³
Speaker net mass		5.840	Kg
Recommended reflex box	Vb/Fb	20 / 70	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 20 liter Bass-Reflex test enclosure tuned at 70Hz.

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.

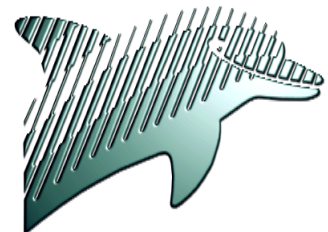
Note 6 : Measured at 20°C ambient temp. QC limits are ±10 %

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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