



phl audio

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DESCRIPTION

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MAIN PARAMETERS

Rated Impedance	8 Ohm
Power Handling Capacity	50-2000 Hz
Reference efficiency	(1W@1m) 99 dB SPL
SPL max (continuous)	500 W AES
Usable frequency range	121,9897 dB SPL
Voice coil Ø	3 inch
Environmental withstanding	Outdoor



5241

ARCHITECTURE

TYPICAL CHARACTERISTICS

Rated impedance	Z	8,00	W
Half space sensitivity (1W@1m)	-	99	dB SPL
Usable freq. range	-	50-2000	Hz
Power handling capacity (AES)	-	500	W
Max Sound Pressure Level	SPLmax	121,9897	dB SPL
Coverage angle	a		°
Min. impedance modulus	Zmin	6.2@240	W@Hz
Voice-coil inductance @ 1kHz	Le ^{1k}	1,47	mH
Voice-coil inductance @ 10kHz	Le ^{10k}	0,61	mH
BL product	BL	23,4	N/A
Moving mass	Mms	0,103	kg

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	46(±6)	Hz
DC Resistance	Re	5.6(±0.5)	W
Mechanical quality factor	Qms	3,7	1
Electrical quality factor	Qes	0,3	1
Total quality factor	Qts	0,28	1
Suspension compliance	Cms	116	10-6.m/N
Effective piston area	Sd	0,0845	m ²
Equivalent Cas air load	Vas	0,116	m ³
Max linear excursion	Xmax	7	mm
Linear displacement volume	Vd	0,5915	10-3.m ³
Reference efficiency	h ⁰	3,6	%
Unity load volume	Vas.Qts ²	9,2	10-3.m ³

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	125	V
Max.excursion before damage	Xdam	14	±mm
Lowest rec. X-over frequency	-		Hz
Ambient operating temperature	Ta	-10 to +50	°C
Storage temperature	-	-20 to +70	°C
Environmental withstanding	-	Outdoor	-

APPLICATION INFORMATION

Air volume occupied by the driver	-	4,4	10-3.m ³
Speaker net mass	-	9,4	kg
Rec. 2 nd order passive X-over	C/L		mF/mH
Recommended reflex box	Vb/Fb	75L / 48Hz	Lts/Hz
Electrical connexion			

