



phl audio

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DESCRIPTION

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MAIN PARAMETERS

Rated Impedance	8 Ohm
Power Handling Capacity	50-4000 Hz
Reference efficiency	(1W@1m) 96 dB SPL
SPL max (continuous)	300 W AES
Usable frequency range	116,7712125 dB SPL
Voice coil Ø	1,5 inch
Environmental withstanding	Outdoor +



4591

ARCHITECTURE

TYPICAL CHARACTERISTICS

Rated impedance	Z	8,00	W
Half space sensitivity (1W@1m)	-	96	dB SPL
Usable freq. range	-	50-4000	Hz
Power handling capacity (AES)	-	300	W
Max Sound Pressure Level	SPLmax	116,7712125	dB SPL
Coverage angle	a		°
Min. impedance modulus	Zmin	6.2@250	W@Hz
Voice-coil inductance @ 1kHz	Le ^{1k}	1,07	mH
Voice-coil inductance @ 10kHz	Le ^{10k}	0,46	mH
BL product	BL	15,1	N/A
Moving mass	Mms	0,06	kg

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	43(±5)	Hz
DC Resistance	Re	5.5(±0.6)	W
Mechanical quality factor	Qms	4,6	1
Electrical quality factor	Qes	0,39	1
Total quality factor	Qts	0,36	1
Suspension compliance	Cms	230	10-6.m/N
Effective piston area	Sd	0,0499	m ²
Equivalent Cas air load	Vas	0,09	m ³
Max linear excursion	Xmax	6	mm
Linear displacement volume	Vd	0,2994	10-3.m ³
Reference efficiency	h ⁰	1,6	%
Unity load volume	Vas.Qts ²	10	10-3.m ³

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	115	V
Max.excursion before damage	Xdam	12	±mm
Lowest rec. X-over frequency	-		Hz
Ambient operating temperature	Ta	-10 to +51	°C
Storage temperature	-	-20 to +71	°C
Environmental withstanding	-	Outdoor +	-

APPLICATION INFORMATION

Air volume occupied by the driver	-	2,6	10-3.m ³
Speaker net mass	-	8,7	kg
Rec. 2 nd order passive X-over	C/L		mF/mH
Recommended reflex box	Vb/Fb	50L / 53Hz	Lts/Hz
Electrical connexion			

