



phl audio

2440Nd

8"

E

Nd



DESCRIPTION

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MAIN PARAMETERS

Rated Impedance	8 Ohm
Power Handling Capacity	80-4000 Hz
Reference efficiency	(1W@1m) 95 dB SPL
SPL max (continuous)	250 W AES
Usable frequency range	117 dB SPL
Voice coil Ø	2 inch
Environmental withstanding	Outdoor



2440Nd

ARCHITECTURE

TYPICAL CHARACTERISTICS

Rated impedance	Z	8,00	W
Half space sensitivity (1W@1m)	-	95	dB SPL
Usable freq. range	-	80-4000	Hz
Power handling capacity (AES)	-	250	W
Max Sound Pressure Level	SPLmax	117	dB SPL
Coverage angle	a		°
Min. impedance modulus	Zmin	6,3 @ 460	W@Hz
Voice-coil inductance @ 1kHz	Le ^{1k}	0,99	mH
Voice-coil inductance @ 10kHz	Le ^{10k}	0,49	mH
BL product	BL	12,4	N/A
Moving mass	Mms	0,02	kg

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	81(±12)	Hz
DC Resistance	Re	5.2(±0.6)	W
Mechanical quality factor	Qms	1,3	1
Electrical quality factor	Qes	0,34	1
Total quality factor	Qts	0,27	1
Suspension compliance	Cms	200	10-6.m/N
Effective piston area	Sd	0,0219	m ²
Equivalent Cas air load	Vas	0,013	m ³
Max linear excursion	Xmax	4	mm
Linear displacement volume	Vd	0,0876	10-3.m ³
Reference efficiency	h ⁰	1,9	%
Unity load volume	Vas.Qts ²	0,9	10-3.m ³

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	90	V
Max.excursion before damage	Xdam	10	±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	-	0,6	10-3.m ³
Speaker net mass	-	2,73	kg
Rec. 2 nd order passive X-over	C/L		mF/mH
Recommended reflex box	Vb/Fb	10L / 80Hz	Lts/Hz
Electrical connexion			

