



1240



Speaker type B171-8
Reference **1240**

TYPICAL CHARACTERISTICS

Rated impedance	Z	Ω	16
Half space sensitivity (1W@1m)	-	dB SPL	93
Usable freq. range	-	Hz	50-4000
Coverage angle	α	$^{\circ}$	-
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPLmax	dB SPL	109
Min. impedance modulus	Zmin	Ω @Hz	13.5@360
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1,33
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0,46
Moving mass	Mms	kg	0,011
BL product	BL	N/A	11,9

(1) Ferrofluid cooled HF UNIT . Stated with a 2nd order passive high-pass filter set @ 3 kHz

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	Hz	42(±6)
DC Resistance	Re	Ω	12.1(±1.2)
Mechanical quality factor	Qms	1	2,6
Electrical quality factor	Qes	1	0,25
Total quality factor	Qts	1	0,23
Mechanical suspension compliance	Cms	10 ⁻⁶ .m/N	1300
Effective piston area	Sd	m ²	0,0133
Equivalent Cas air load	Vas	m ³	0,032
Max linear excursion	Xmax	±mm	3,5
Linear displacement volume	Vd	10 ⁻³ .m ³	0,047
Reference efficiency	η_0	%	0,9
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	1,7

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	V	85
Max.excursion before damage	Xdam	±mm	8
Lowest recommended X-over frequency	-	Hz	-
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature	-	$^{\circ}$ C	-20 to +70
Environmental withstanding *	-	-	Outdoor \blackspadesuit

APPLICATION INFORMATION

Air volume occupied by the driver	-	10 ⁻³ .m ³	0,5
Speaker net mass	-	kg	2,15
Recommended 2nd order passive X-over	C/L	μ F/mH	-
Recommended reflex box	Vb/Fb	Lts/Hz	12 L / 55Hz

* Our products are classified in three categories : Indoor, Outdoor, and Outdoor \blackspadesuit for permanent outdoor use or severe conditions.

These specifications are representative of current production after packaging. Because of our continuous research they are subject to change without notice.

