



16/12/1999

## SPECIFICATION SHEET

<b>Speaker type:</b>	<b>B171-8</b>		
<b>Model number :</b>	<b>SP</b>		<b>1280</b>
Upgrade	0		
<b>Architecture particularities:</b>	<ul style="list-style-type: none"> <li>- Phase plug version of SP1220</li> <li>- High definition ultra light CCAR Voice coil</li> <li>- Both side damped curvilinear cone with S roll surround</li> </ul>		
<b>Typical characteristics</b>			
Rated impedance	Z	$\Omega$	8
Half space sensitivity (1W@1m)	-	dB SPL	93
Usable freq. range	-	Hz	50-4000
Power handling capacity (AES)	-	W	100
Max Sound Pressure Level	SPLmax	dB SPL	109
Min. impedance modulus	Zmin	$\Omega$ @Hz	6.0@360
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	0,35
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0,24
BL product	BL	N/A	8,8
Moving mass	Mms	kg	0,011
<b>Thiele-Small parameters: Typical (QC limits)</b>			
Resonance frequency	Fs	Hz	47( $\pm$ 7)
DC Resistance	Re	$\Omega$	6.0( $\pm$ 0.6)
Mechanical quality factor	Qms	1	3,0
Electrical quality factor	Qes	1	0,24
Total quality factor	Qts	1	0,23
Mechanical suspension compliance	Cms	$10^{-6}$ .m/N	1000
Effective piston area	Sd	m <sup>2</sup>	0,0133
Equivalent Cas air load	Vas	m <sup>3</sup>	0,0260
Max linear excursion	Xmax	$\pm$ mm	3,5
Linear displacement volume	Vd	$10^{-3}$ .m <sup>3</sup>	0,047
Reference efficiency	$\eta_0$	%	1,1
Unity load volume	Vas.Qts <sup>2</sup>	$10^{-3}$ .m <sup>3</sup>	1,3
<b>Absolute maximum ratings</b>			
Short term max. input voltage	Vmax	V	60
Max.excursion before damage	Xdam	$\pm$ mm	8
Ambient operating temperature	Ta	$^{\circ}$ C	-10 to +50
Storage temperature	-	$^{\circ}$ C	-20 to +70
Environemental withstanding	-	-	Tropical
<b>Application information</b>			
Air volume occupied by the driver	-	$10^{-3}$ .m <sup>3</sup>	0,51
Speaker net mass		kg	2,150
Baffle cut-out Diameter (Front mounting)		mm	146,0
Bolt number & Metric Diameter		-	4x M5
Bolt Circle Diameter		mm	172,00
Max Overall dimension (on ears)		mm	187,5
Max Overall Diemension (out of ears)		mm	163,0
Flange Height		mm	8,0
Max Magnet Diameter		mm	117,5
Max Depth (Front mounting)			68,5
Recommended reflex box	Vb/Fb	Lts/Hz	12L/55Hz

Note: These specifications are stated to be representative of current production after conditioning. Because of our continous research they are subject to change without notice. The latest upgrade dating cancels the previous one.

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