



X30

COAXIAL - 30cm / 12"

Speaker type	Coax 1"	Coax 1.4"	Coax 1"	Coax 1"	Coax 1"				
Reference	4070	4080	4190	4200	4590				

TYPICAL CHARACTERISTICS

Rated impedance	Z	Ω	8	8	4	8	8			
Half space sensitivity (1W@1m)	-	dB SPL	97	97	97	98	96			
Usable freq. range	-	Hz	50-2500	50-2500	40-3000	55-3000	50-4000			
Power handling capacity (AES)	-	W	400	400	450	300	300			
Max Sound Pressure Level	SPLmax	dB SPL	119	119	120	119	117			
Min. impedance modulus	Zmin	Ω @Hz	6.5@270	6.5@270	3.7@250	6.9@430	6.2@250			
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1,07	1,07	0,79	1,07	1,07			
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0,51	0,51	0,37	0,46	0,46			
BL product	BL	N/A	20,6	20,6	16,4	20,9	15,1			
Moving mass	Mms	kg	0,057	0,057	0,076	0,054	0,060			

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	Hz	47(±6)	47(±6)	39(±5)	48(±6)	43(±5)			
DC Resistance	Re	Ω	5.5(±0.6)	5.5(±0.6)	3.0(±0.3)	5.8(±0.6)	5.5(±0.6)			
Mechanical quality factor	Qms	1	3,5	3,5	3,9	3,6	4,6			
Electrical quality factor	Qes	1	0,22	0,22	0,21	0,22	0,39			
Total quality factor	Qts	1	0,21	0,21	0,20	0,21	0,36			
Mechanical suspension compliance	Cms	10 ⁻⁶ .m/N	205	205	225	205	230			
Effective piston area	Sd	m ²	0,049	0,049	0,049	0,049	0,0499			
Equivalent Cas air load	Vas	m ³	0,068	0,068	0,092	0,068	0,090			
Max linear excursion	Xmax	±mm	5,5	5,5	7,0	4,5	6,0			
Linear displacement volume	Vd	10 ⁻³ .m ³	0,270	0,270	0,343	0,221	0,299			
Reference efficiency	η_0	%	3,1	3,1	2,1	3,4	1,6			
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	2,9	2,9	2,9	2,9	10			

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	V	115	115	90	100	115			
Max.excursion before damage	Xdam	±mm	12	12	12	12	12			
Ambient operating temperature	Ta	°C	-10 to +50	-10 to +50	-10 to +50	-10 to +50	-10 to +51			
Storage temperature	-	°C	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +71			
Environmental withstanding *	-	-	Outdoor	Outdoor	Outdoor +	Outdoor +	Outdoor +			

APPLICATION INFORMATION

Air volume occupied by the driver	-	10 ⁻³ .m ³	2,6	2,6	2,6	2,6	2,6			
Speaker net mass		kg	8,7	8,7	8,7	8,7	8,7			
Recommended reflex box	Vb/Fb	Lts/Hz	50L / 53Hz	50L / 53Hz	45L / 48Hz	40L / 63Hz	50L / 53Hz			

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

upgrade : 05/07/2002