



<h1>X38</h1>	<h2>COAXIAL - 38cm / 15"</h2>								
	Speaker type Reference	Coax 1.4"	Coax 1"	Coax 1"	Coax 1"	Coax 1"	Coax 2"	Coax 2"	
	5230	5240	5310	5190	5170	6070	6120		

TYPICAL CHARACTERISTICS

Rated impedance	Z	Ω	8	8	8	6	8	6	8
Half space sensitivity (1W@1m)	-	dB SPL	99	99	99	99	98	98	97
Usable freq. range	-	Hz	50-2000	50-2000	50-2000	50-2000	40-1500	40-1200	35-1000
Power handling capacity (AES)	-	W	500	500	350	350	400	700	800
Max Sound Pressure Level	SPLmax	dB SPL	122	122	120	120	120	122	122
Min. impedance modulus	Zmin	Ω @Hz	6.2@240	6.2@240	6.0@240	4.6@250	6.5@220	5.2@240	7.1@220
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1,47	1,47	1,15	0,93	1,41	1,36	1,79
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0,61	0,61	0,56	0,47	0,58	0,72	0,87
BL product	BL	N/A	23,4	23,4	20,6	18,6	20,8	25,1	26,6
Moving mass	Mms	kg	0,103	0,103	0,088	0,088	0,101	0,135	0,156

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	Hz	46(±6)	46(±6)	42(±5)	42(±5)	39(±5)	40(±5)	37(±5)
DC Resistance	Re	Ω	5.6(±0.5)	5.6(±0.5)	5.5(±0.5)	4.2(±0.4)	5.6(±0.5)	4.1(±0.4)	5.5(±0.5)
Mechanical quality factor	Qms	1	3,7	3,7	3,9	3,9	4,1	4,2	4,5
Electrical quality factor	Qes	1	0,30	0,30	0,30	0,28	0,32	0,22	0,29
Total quality factor	Qts	1	0,28	0,28	0,28	0,26	0,30	0,21	0,27
Mechanical suspension compliance	Cms	10 ⁻⁶ .m/N	116	116	160	160	160	116	116
Effective piston area	Sd	m ²	0,0845	0,0845	0,0845	0,0845	0,0845	0,0810	0,0810
Equivalent Cas air load	Vas	m ³	0,116	0,116	0,163	0,163	0,163	0,108	0,108
Max linear excursion	Xmax	±mm	7,0	7,0	5,5	5,5	7,0	5,0	8,0
Linear displacement volume	Vd	10 ⁻³ .m ³	0,592	0,592	0,465	0,465	0,592	0,405	0,648
Reference efficiency	η_0	%	3,6	3,6	3,9	4,1	2,9	3,0	1,9
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	9,2	9,2	12,7	11,3	14,6	4,7	7,9

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	V	125	125	100	90	115	130	150
Max.excursion before damage	Xdam	±mm	14	14	14	14	14	14	14
Ambient operating temperature	Ta	°C	-10 to +50	-10 to +50	-10 to +50	-10 to +50	-10 to +50	-10 to +50	-10 to +50
Storage temperature	-	°C	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70	-20 to +70
Environmental withstanding *	-	-	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor ✚

APPLICATION INFORMATION

Air volume occupied by the driver	-	10 ⁻³ .m ³	4,4	4,4	4,4	4,4	4,4	5,0	5,0
Speaker net mass		kg	9,4	9,4	9,4	9,4	9,4	11,0	11,0
Recommended reflex box	Vb/Fb	Lts/Hz	75L / 48Hz	75L / 48Hz	65L / 53Hz	75L / 45Hz	75L / 45Hz	55L / 55Hz	65L / 42 Hz

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

upgrade : 03/12/2003

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