



X38Nd

COAXIAL • 38cm / 15" • Neodym

Speaker type	Coax 1.4"	Coax 1"						
Reference	5232Nd	5241Nd						

TYPICAL CHARACTERISTICS

Rated impedance	Z	Ω	8	8				
Half space sensitivity (1W@1m)	-	dB SPL	99	99				
Usable freq. range	-	Hz	50-2000	50-2000				
Power handling capacity (AES)	-	W	600	600				
Max Sound Pressure Level	SPLmax	dB SPL	125	125				
Min. impedance modulus	Zmin	Ω @Hz	6.5@270	6.5@270				
Voice-coil inductance @ 1kHz	Le _{1k}	mH	1,47	1,47				
Voice-coil inductance @ 10kHz	Le _{10k}	mH	0,64	0,69				
BL product	BL	N/A	22,6	22,6				
Moving mass	Mms	kg	0,114	0,106				

THIELE-SMALL PARAMETERS: TYPICAL (QC LIMITS)

Resonance frequency	Fs	Hz	46(±6)	48(±6)				
DC Resistance	Re	Ω	5,6(±0,5)	5,6(±0,5)				
Mechanical quality factor	Qms	1	1,7	1,6				
Electrical quality factor	Qes	1	0,36	0,30				
Total quality factor	Qts	1	0,30	0,25				
Mechanical suspension compliance	Cms	10 ⁻⁶ .m/N	105	105				
Effective piston area	Sd	m ²	0,0845	0,0845				
Equivalent Cas air load	Vas	m ³	0,105	0,105				
Max linear excursion	Xmax	±mm	7,0	7,0				
Linear displacement volume	Vd	10 ⁻³ .m ³	0,592	0,592				
Reference efficiency	η_0	%	2,7	3,6				
Unity load volume	Vas.Qts ²	10 ⁻³ .m ³	9,2	6,5				

ABSOLUTE MAXIMUM RATINGS

Short term max. input voltage	Vmax	V	140	140				
Max.excursion before damage	Xdam	±mm	14	14				
Ambient operating temperature	Ta	°C	-10 to +50	-10 to +50				
Storage temperature	-	°C	-20 to +70	-20 to +70				
Environmental withstanding *	-	-	Outdoor +	Outdoor +				

APPLICATION INFORMATION

Air volume occupied by the driver	-	10 ⁻³ .m ³	3,9	3,9				
Speaker net mass		kg	7,4	7,4				
Recommended reflex box	Vb/Fb	Lts/Hz	65L / 53Hz	65L / 53Hz				

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

upgrade :12/02/2004