

OD - overall diameter
 CD - internal diameter
 MD - magnet diameter
 ID - internal depth
 FT - frame thickness

Dimensions(mm)				
OD	CD	MD	ID	FT
270	240	147	120	5

Description:

269 mm extra long stroke 4 + 4 Ohm XLS subwoofer for demanding automotive applications. Dual voice coils. For very high current amplifiers only. Specs given are with the voice coils wired in parallel.

Nominal impedance	Zn	(Ohm)	4+4	Reference voltage sensitivity		(dB)	93.3
Minimum impedance/at freq	Zmin	(Ohm/Hz)	1.7/137	Voice coil diameter	d	(mm)	51
Maximum impedance	Zo	(Ohm)	n/a	Voice coil length	h	(mm)	n/a
DC resistance	Re	(Ohm)	1.7	Voice coil layers	n		n/a
Voice coil inductance	Le	(mH)	n/a	Flux density in gap	B	(T)	n/a
Resonance frequency	fs	(Hz)	34	Total useful flux		(mWb)	n/a
Mechanical Q factor	Qms		9.63	Height of the gap	hg	(mm)	n/a
Electrical Q factor	Qes		0.39	Diameter of magnet	dm	(mm)	n/a
Total Q factor	Qts		0.38	Height of magnet	hm	(mm)	n/a
F (Ratio fs/Qts)	F	(Hz)	n/a	Long term power (IEC)		(W)	175
Mechanical resistance	Rms	(Kg/s)	n/a	Max linear SPL (rms)		(dB/W)	n/a
Mechanical loss	Rm	(Ns/m)	n/a	Xmax peak		(mm)	n/a
Moving mass	Mms	(g)	n/a	Nominal power		(W)	350
Suspension compliance	Cms	(mm/N)	n/a	Frequency range		(Hz)	n/a
Effective cone diameter	D	(cm)	21.2	Net weight		(kg)	n/a
Effective piston area	Sd	(cm ²)	333	Recommended Box Volume (Vb)		(Litres)	
Equivalent volume	Vas	(ltrs)	25.6	Recommended Port Diameter		(mm)	
Force factor	BI	(Tm)	n/a	Recommended Port Length		(mm)	

Type: 269 SWR 51 147 NX 4L ALP 4+4Ω 830563

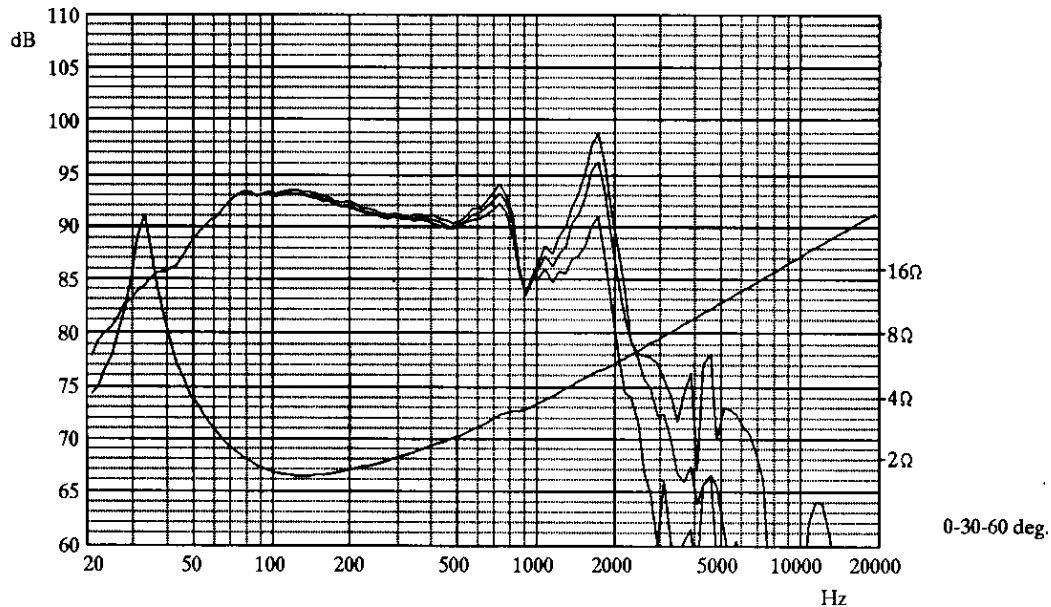
Thiele Small parameters:

		Free air	Common	Baffled
Nominal impedance	Zn (Ω)		2	
Minimum impedance/at freq.	Zmin (Ω/Hz)		1.7 / 137	
Maximum impedance	Zo (Ω)		30.6	
Dc resistance	Re (Ω)		1.2	
Voice coil inductance	Le (mH)		0.9	
Capacitor in series with 2 Ω (for impedance compensation)	Cc (μF)		156	
Resonance Frequency	fs (Hz)	33.9		33.9
Mechanical Q factor	Qms	9.63		9.63
Electrical Q factor	Qes	0.39		0.39
Total Q factor	Qts	0.38		0.38
F (Ratio fs/Qts)	F (Hz)			90
Mechanical resistance	Rms (Kg/s)		3.27	
Moving mass	Mms (g)	147.7		147.8
Suspension compliance	Cms (mm/N)		0.15	
Effective cone diameter	D (cm)		21.2	
Effective piston area	Sd (cm²)		352	
Equivalent volume	Vas (ltrs)		25.6	
Force factor	Bl (N/A)		9.8	
Ref. Voltage sensitivity (calculated) (dB)				91.4
Voltage sensitivity (SPL curve) (dB)				93.3

Magnet and voice coil parameters:

Voice coil diameter	d (mm)	51
Voice coil length	h (mm)	33
Voice coil layers	n	4
Flux density in gap	B (T)	1.04
Total useful flux	(mWb)	2.50
Height of the gap	hg (mm)	8
Diameter of magnet	dm (mm)	147
Height of magnet	hm (mm)	35
Weight of magnet	(kg)	2.42

Customer:
Att:
Comments: Measured with coils in parallel
Sign: EF



Measuring methods and conditions are stated in Peerless Standard for Acoustic Measurements (PSAM).

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