TYMPHANY

Revelator
4″ Midrange

SCANSPEAK

Type Number: 12M/4831G00

Features:

The Revelator series has for years been celebrated for producing the best sounding electro dynamic transducers in the world. Since ScanSpeak was founded in 1970, the audio engineers and R&D experts working on the line have been on a quest to create drivers that reveal all the sound in recordings, hiding nothing from the listener. This quest has resulted in several revolutionary inventions that remove distortion in the magnet systems and in the moving parts of the speaker. The philosophy is that the sound has to be very dynamic, giving a perfect transient response and providing tonal balance.

One of the latest inventions realized in the Revelator midrange design is the sliced paper cone, which reduces break-up modes in the membrane dramatically. The result is an undisputed clarity in sound.

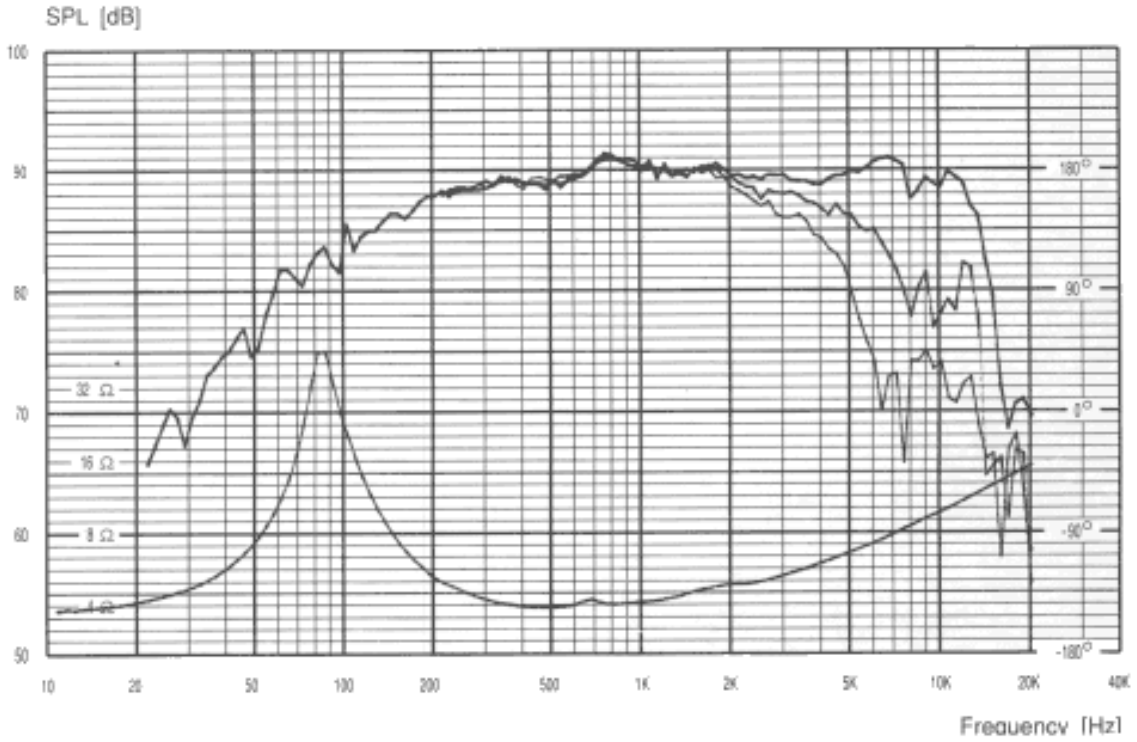
Driver Highlights: Low loss suspension, sliced paper cone, Compact linear motor system

Specs:

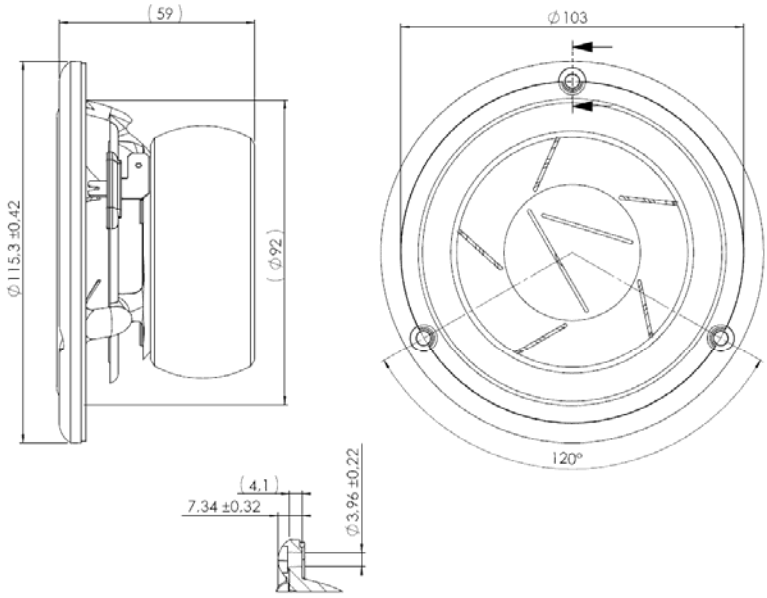
Electrical Data			
Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	--	ohm
Maximum impedance	Zo	--	ohm
DC resistance	Re	3.2	ohm
Voice coil inductance	Le	0.22	mH
T-S Parameters			
Resonance Frequency	fs	75	Hz
Mechanical Q factor	Qms	5.57	
Electrical Q factor	Qes	0.35	
Total Q factor	Qts	0.33	
Force factor	Bl	5.3	Tm
Mechanical resistance	Rms	0.55	Kg/s
Moving mass	Mms	6.5	g
Suspension compliance	Cms	--	mm/N
Effective cone diameter	D	--	cm
Effective piston area	Sd	49	cm^2
Equivalent volume	Vas	2.4	ltrs
Sensitivity		89	dB

Power handling		
100h RMS noise test (IEC)	40	W
Long-term Max System Power (IEC)	--	W
Max linear SPL (rms) @ power	--	dB/W
Short Term Max power	--	W
Voice Coil and Magnet Parameters		
Voice coil diameter	38	mm
Voice coil height	--	mm
Voice coil layers	--	
Height of the gap	--	mm
Linear excursion +/-	3	mm
Max mech. excursion +/-	7	mm
Flux density of gap	--	mWb
Total useful flux	--	mWb
Diameter of magnet	--	mm
Height of magnet	--	mm
Weight of magnet	--	Kg

Frequency:



Mechanical Dimensions:



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