Illuminator
1" Tweeter

SCANSPEAK

Type Number: D3004/664000

Features:

This tweeter features a 99% pure Beryllium dome diaphragm. The large roll surround and Beryllium dome diaphragm provide a flat frequency response to above 40KHz with outstanding off-axis dispersion and a silky-smooth sound.

ScanSpeak's unique AirCirc Magnet System -- named for the way it optimizes air flow within the chamber – rearranges the traditional magnet structure from a single magnet to an open magnetic circuit comprised of six separate neodymium slugs. This, in combination with the chamber, results in the elimination of the reflections and resonances that compromise the performance of traditional motors.
The D3004 gives engineers improved control over critical midrange performance, for superb vocal rendition and excellent imaging at all listening locations.

Driver Highlights:
- 1" Beryllium Diaphragm (99% pure Beryllium)
- AirCirc Magnet System with 6 Neodymium Magnet slugs
- Die cast rubber painted aluminium faceplate for maximum mechanical stability and beautiful look
- Protective grill.

Specs:

Electrical Data			
Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	3,6/2240	ohm
Maximum impedance	Zo	16,9	ohm
DC resistance	Re	3,0	ohm
Voice coil inductance	Le	0,03	mH

T-S Parameters			
Resonance Frequency	fs	500	Hz
Mechanical Q factor	Qms		
Electrical Q factor	Qes		
Total Q factor	Qts		
Force factor	Bl	2,3	Tm
Mechanical resistance	Rms		Kg/s
Moving mass	Mms	0,35	g
Suspension compliance	Cms	0,29	mm/N
Effective cone diameter	D		cm
Effective piston area	Sd	7,0	cm2
Equivalent volume	Vas		ltrs
Sensitivity (2.83V/1m)		91,5	dB
Ratio BL/√(Re)			
Ratio fs/Qts	F		

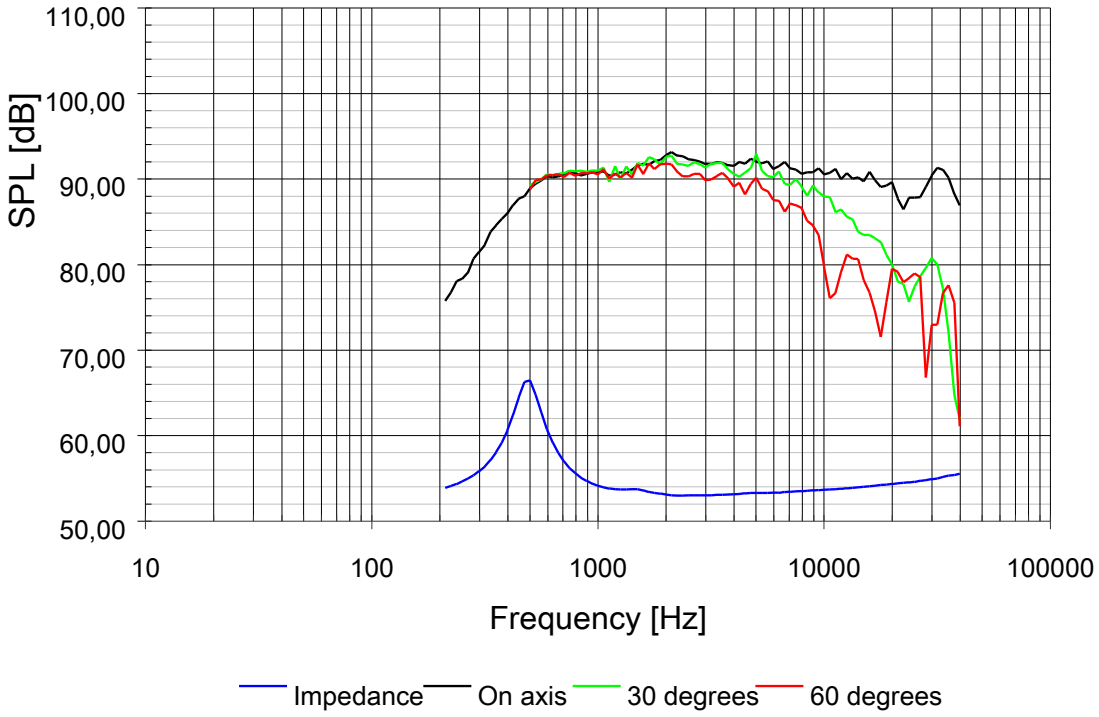
Power Handling		
100h RMS noice test (IEC)	90	W
Long-term Max Power (IEC18.3)	150	W
Max linear SPL (rms) @ power		dB/W
Short-term Max Power (IEC18.2)		W

Voice Coil and Magnet Parametres		
Voice coil diameter	26,0	mm
Voice coil height	2,1	mm
Voice coil layers	2	
Height of gap	2,5	mm
Linear excursion +/-	0,2	mm
Max mech. Excursion +/-	1,6	mm
Flux density of gap		mWb
Total useful flux		mWb
Diameter of magnet		mm
Height of magnet		mm
Weight of magnet		Kg
Unit net weight	0,3	Kg

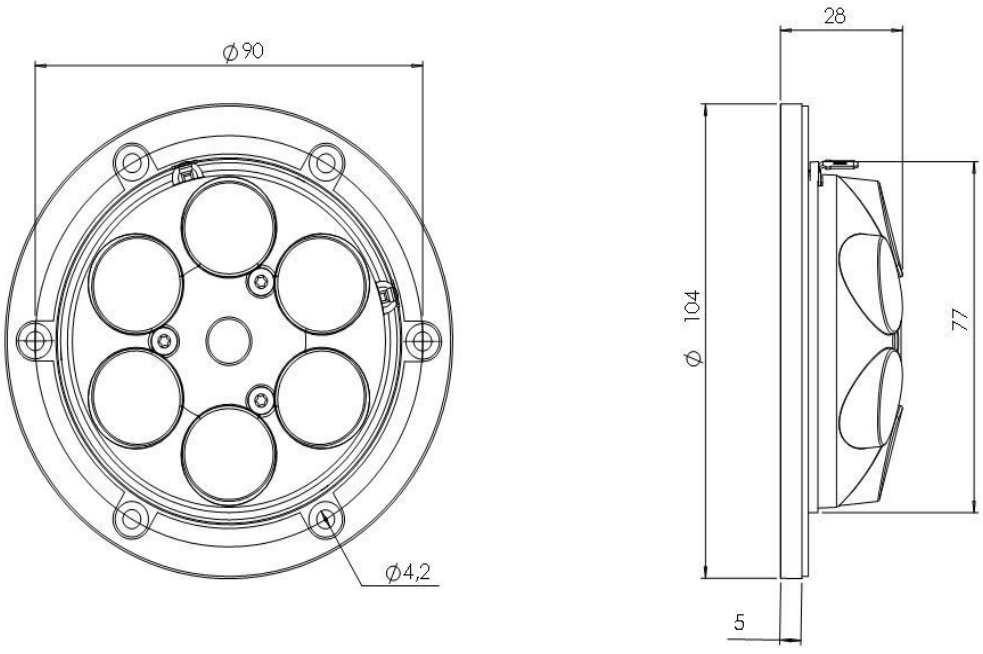
Notes:

IEC Specs refer to IEC 60268,5 third edition. 2.5 kHz, 2. order BW
All Scan Speak products are RoHS compliant
Link to: Beryllium Safety Data Sheet

Frequency:



Mechanical Dimensions:



Updated 2009.10.13