

Illuminator 6,5" Midwoofer



Type Number: 18WU/4747T00

Features:

The Illuminator woofers are based on compact under-hung motor systems with large neodymium ring magnets. The patent pending motor offers a very long linear excursion together with a very high force factor. The top plate is shaped to "guide" the backside airflow around the motor and with the very open cast aluminum chassis design the driver is virtually free from compression.



Driver Highlights:

- Patented symmetrical drive motor system.
- Under hung motor system.
- Neodymium magnet.
- Voice coil gap fully encapsulated with copper caps.
- Exceptionally long linear stroke.
- Black anodized Aluminium cone.
- Optimized for woofer application in 3-way systems.

Specs:

Electrical Data

Nominal impedance	Zn	4	ohm
Minimum impedance	Zmin	4,6/141	ohm
Maximum impedance	Zo	38,4	ohm
DC resistance	Re	3,2	ohm
Voice coil inductance	Le	0,39	mH

T-S Parameters

Resonance Frequency	fs	32,0	Hz
Mechanical Q factor	Qms	3,42	
Electrical Q factor	Qes	0,30	
Total Q factor	Qts	0,28	
Force factor	Bl	6,00	Tm
Mechanical resistance	Rms	1,00	Kg/s
Moving mass	Mms	17,0	g
Suspension compliance	Cms	1,46	mm/N
Effective cone diameter	D	14	cm
Effective piston area	Sd	154	cm ²
Equivalent volume	Vas	48,7	ltrs
Sensitivity (2.83V/1m)		88,1	dB

Power Handling

100h RMS noise test (IEC)	80	W
Long-term Max Power (IEC18.3)	150	W

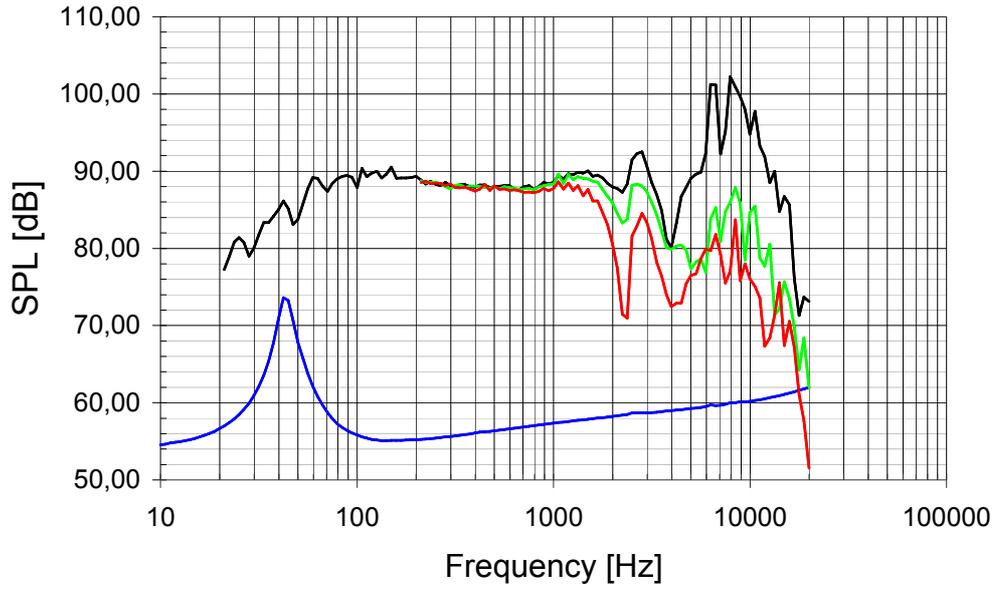
Voice Coil and Magnet Parametres

Voice coil diameter	42,0	mm
Voice coil height	8,0	mm
Voice coil layers	4	
Height of gap	20,0	mm
Linear excursion +/-	9,0	mm
Max mech. Excursion +/-	16,0	mm
Diameter of magnet	90,0	mm
Height of magnet	4,0	mm
Weight of magnet	0,13	Kg
Unit net weight	1,7	Kg

Notes:

IEC Specs refer to IEC 60268-5 third edition.
All Scan Speak products are RoHS compliant

Frequency:



— Impedance — On axis — 30 degrees — 60 degrees

Mechanical Dimensions:

