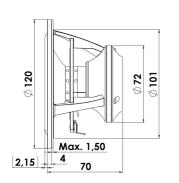


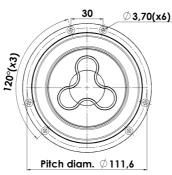
ILLUMINATOR

MIDRANGE

12MU/4731T00

The Illuminator midranges and midwoofers are in every aspect unusual designs with the open construction, the extremely long linear excursion and patented under-hung SD-3 (Symmetrical Drive) neodymium motor system, which due to copper caps and its construction ensures very low distortion, adding the unique patented cones, low-loss linear suspension the result is: "The Very Best Money Can Buy"!







KEY FEATURES:

- Under-Hung Neodymium Motor Design
- One Piece Cone-Dust Cap
- Very Wide Frequency Response 100-10KHz

T-S Parameters

Resonance frequency [fs]	64 Hz
Mechanical Q factor [Qms]	3.64
Electrical Q factor [Qes]	0.26
Total Q factor [Qts]	0.24
Force factor [BI]	5.1 Tm
Mechanical resistance [Rms]	0.60 kg/s
Moving mass [Mms]	5.4 g
Suspension compliance [Cms]	1.15 mm/N
Effective diaph. diameter [D]	86 mm
Effective piston area [Sd]	58 cm ²
Equivalent volume [Vas]	5.4
Sensitivity (2.83V/1m)	90 dB
Ratio BI/√Re	2.92 N/√W
Ratio fs/Qts	264 Hz

Notes:

IEC specs. refer to IEC 60268-5 third edition. All Scan-Speak products are RoHS compliant. Data are subject to change without notice. Datasheet updated: January 29, 2011. Patented Symmetrical Drive (SD-3)

Low-Loss Linear Suspension

• High Output 90dB @ 2,83V

Electrical Data

Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	4.3 Ω
Maximum impedance [Zo]	46.5 Ω
DC resistance [Re]	3.1 Ω
Voice coil inductance [Le]	0.11 mH

Power Handling

100h RMS noise test (IEC 17.1)*	80 W
Long-term max power (IEC 17.3)*	150 W
*Filter: 2. order HP Butterworth, 200 Hz	

Voice Coil and Magnet Data

Voice coil diameter	32 mm
Voice coil height	6 mm
Voice coil layers	4
Height of gap	13 mm
Linear excursion	± 3.5 mm
Max mech. excursion	± 10 mm
Unit weight	0.8 kg

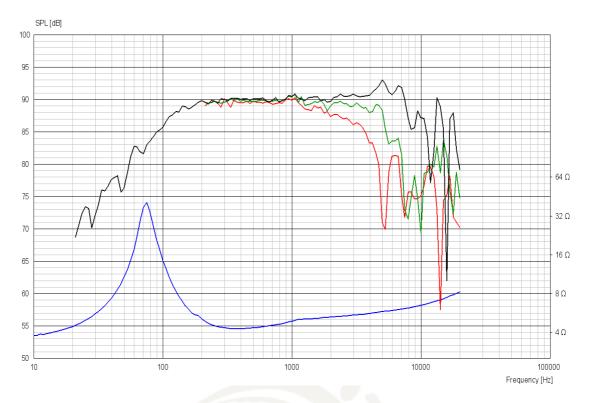




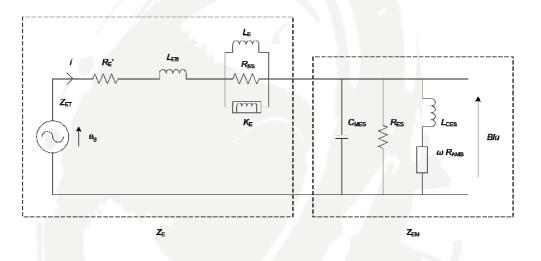
ILLUMINATOR

MIDRANGE

12MU/4731T00



Advanced Parameters (Preliminary)



Electrical data:

Resistance [Re']	3.43 Ω
Free inductance [Leb]	0.0467 mH
Bound inductance [Le]	0.659 mH
Semi-inductance [Ke]	0.0590 SH
Shunt resistance [Rss]	2.59 Ω

Mechanical Data	
Force Factor [BI]	4.57 Tm
Moving mass [Mms]	5.42 g
Compliance [Cms]	1.03 mm/N
Mechanical resistance [Rms]	0.214 kg/s
Admittance resistance [Rams]	3.18 mΩ·s

N.C. Madsensvej 1 · 6920 Videbæk · Denmark · Phone: +45 6040 5200 · www.scan-speak.dk