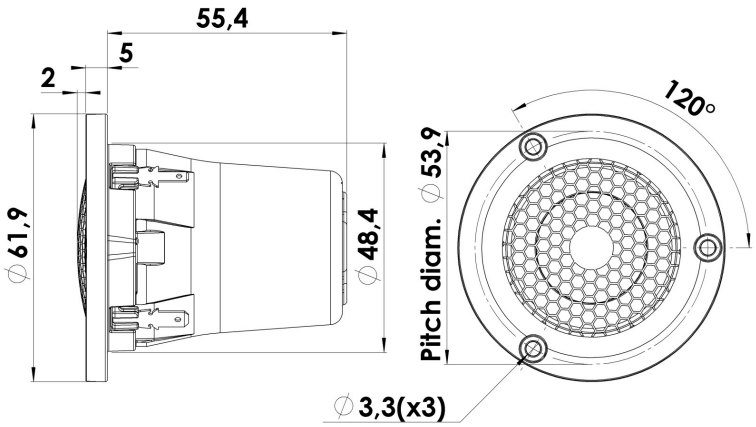
ILLUMINATOR

TWEETER D3004/604010

This 1” compact Illuminator beryllium tweeter is an example of a big sound in a small body. As beryllium is a material characterised by great stiffness, light weight and high damping, the beryllium diaphragm offers all the properties required to reproduce excellent sound. And indeed, the 1” tweeter sounds great. It has a very low distortion and a distinct clarity that brings out the best in all types of music.



KEY FEATURES:

- 1" Beryllium diaphragm (99% pure BE)
- Large non resonant aluminium enclosure
- Sound transparant protective grill
- Patented symetrical drive (SD-2) motor
- Large roll surround f. wide dispersion
- Applicable for HiFi and automotive

T-S Parameters	
Resonance frequency [fs]	450 Hz
Mechanical Q factor [Qms]	2.50
Electrical Q factor [Qes]	0.97
Total Q factor [Qts]	0.70
Force factor [Bl]	1.7 Tm
Mechanical resistance [Rms]	0.4 kg/s
Moving mass [Mms]	0.35 g
Compliance [Cms]	0.43 mm/N
Effective diaph. diameter [D]	3 mm
Effective piston area [Sd]	7 cm²
Equivalent volume [Vas]	0.03 l
Sensitivity (2.83V/1m)	90.2 dB
Ratio Bl/√Re	0.98 N/√W
Ratio fs/Qts	608 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: October 28, 2015.

Electrical Data	
Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	3.6 Ω
Maximum impedance [Zo]	11.2 Ω
DC resistance [Re]	3 Ω
Voice coil inductance [Le]	0.02 mH

Power Handling	
100h RMS noise test (IEC 17.1)*	50 W
Long-term max power (IEC 17.3)*	100 W

*Filter: 2. order HP Butterworth, 2,5kHz

Voice Coil & Magnet Data	
Voice coil diameter	26 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
Unit weight	0.2 kg

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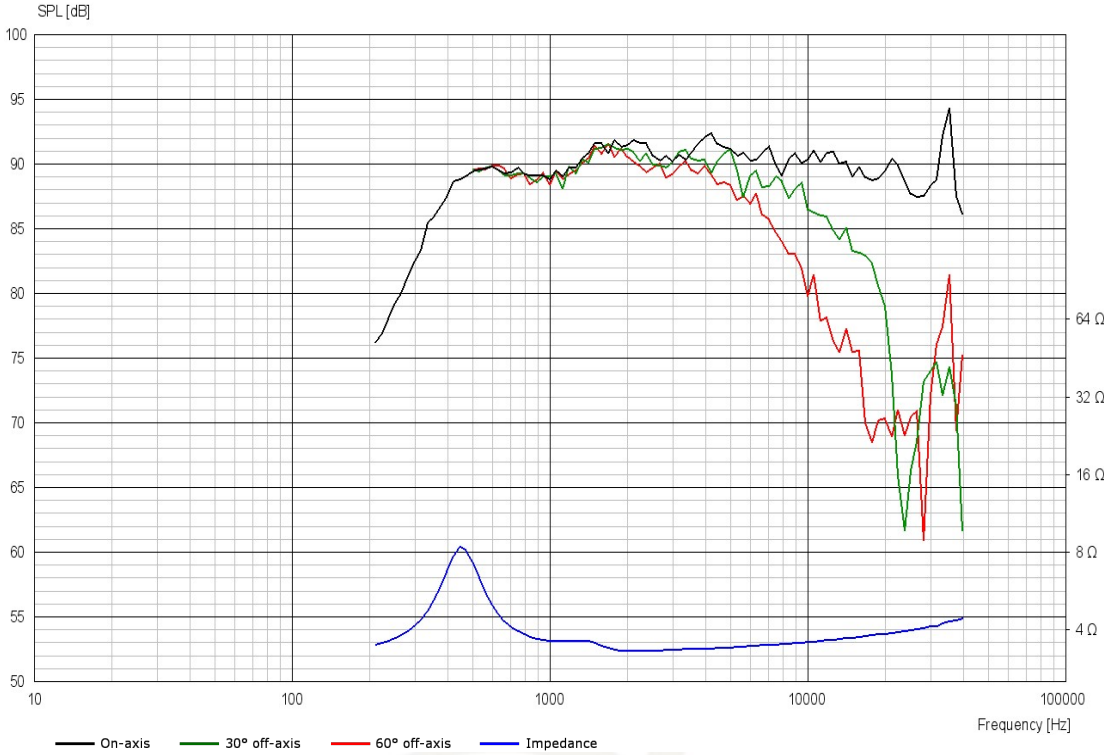
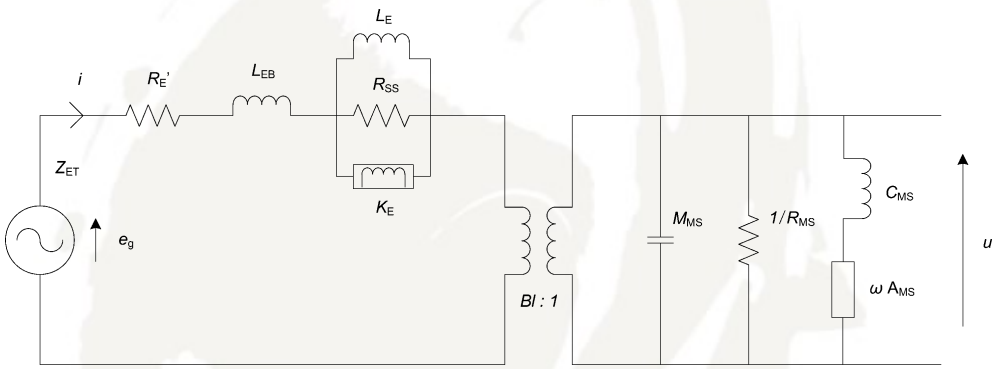


Advanced Parameters (Preliminary)



Electrical data	
Resistance [Re']	- Ω
Free inductance [Leb]	- mH
Bound inductance [Le]	- mH
Semi-inductance [Ke]	- SH
Shunt resistance [Rss]	- Ω

Mechanical Data	
Force Factor [Bl]	- Tm
Moving mass [Mms]	- g
Compliance [Cms]	- mm/N
Mechanical resistance [Rms]	- kg/s
Admittance [Ams]	- mm/N

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