

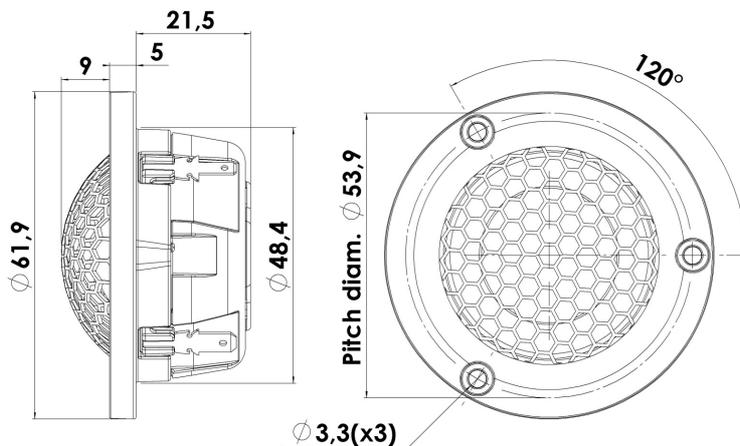


ILLUMINATOR

TWEETER

D3004/604000

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)
- Patented Symmetrical Drive (SD-2) motor
- Die Cast Housing & Face Plate
- Large Roll Surround f. wide dispersion
- Compact Non Resonant Alu Rear Chamber
- Sound Transparent Protective Grill

T-S Parameters

| | |
|-------------------------------|-------------------|
| Resonance frequency [fs] | 750 Hz |
| Mechanical Q factor [Qms] | 4.02 |
| Electrical Q factor [Qes] | 2.18 |
| Total Q factor [Qts] | 1.41 |
| Force factor [Bl] | 1.20 Tm |
| Mechanical resistance [Rms] | 0.28 kg/s |
| Moving mass [Mms] | 0.24 g |
| Compliance [Cms] | 0.19 mm/N |
| Effective diaph. diameter [D] | 30 mm |
| Effective piston area [Sd] | 7 cm ² |
| Equivalent volume [Vas] | 0.01 l |
| Sensitivity (2.83V/1m) | 90.9 dB |
| Ratio Bl/√Re | 0.71 N/√W |
| Ratio fs/Qts | 532 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: July 1, 2014.

Electrical Data

| | |
|----------------------------|---------------|
| Nominal impedance [Zn] | 4 Ω |
| Minimum impedance [Zmin] | 3.6 Ω |
| Maximum impedance [Zo] | 10.9 Ω |
| DC resistance [Re] | 2.85 Ω |
| Voice coil inductance [Le] | 0.03 mH |

Power Handling

| | |
|--------------------------------|-----|
| 100h RMS noise test (IEC 17.1) | - W |
| Long-term max power (IEC 17.3) | - W |

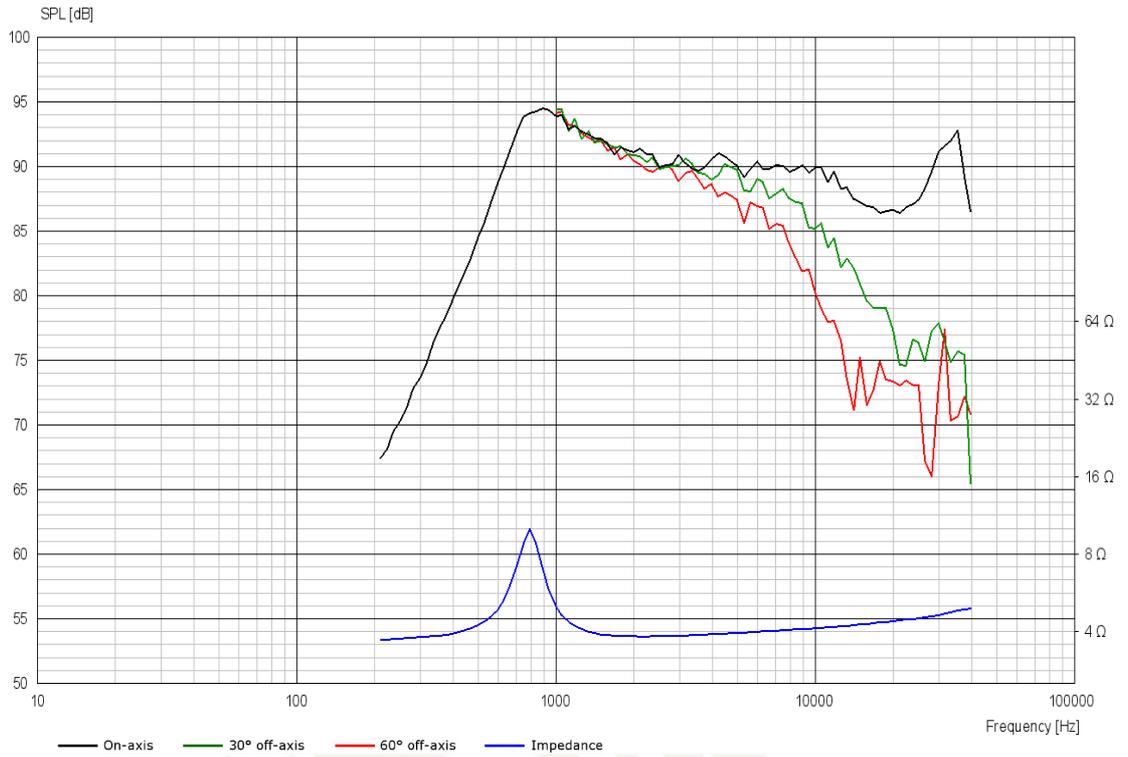
Voice Coil & Magnet Data

| | |
|---------------------|--------------|
| 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 | 0.15 kg |

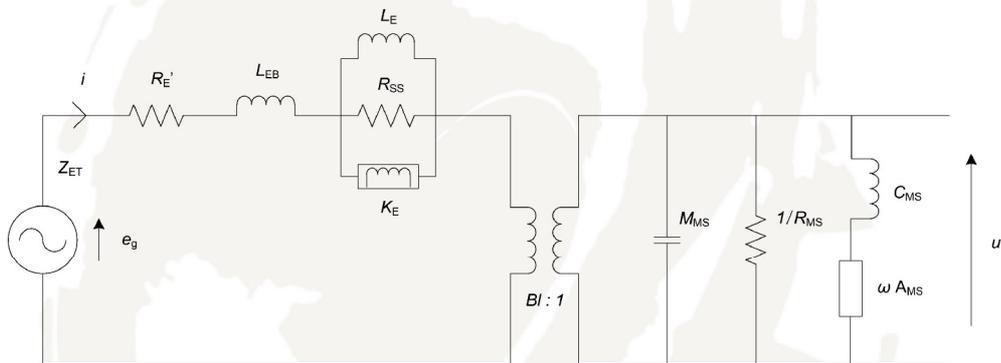


TWEETER

D3004/604000



Advanced Parameters (Preliminary)



Electrical data

| | |
|-------------------------------|------------|
| Resistance [$R_{E'}$] | - Ω |
| Free inductance [L_{EB}] | - mH |
| Bound inductance [L_E] | - mH |
| Semi-inductance [K_E] | - SH |
| Shunt resistance [R_{SS}] | - Ω |

Mechanical Data

| | |
|------------------------------------|--------|
| Force Factor [BI] | - Tm |
| Moving mass [M_{MS}] | - g |
| Compliance [C_{MS}] | - mm/N |
| Mechanical resistance [R_{MS}] | - kg/s |
| Admittance [A_{MS}] | - mm/N |

