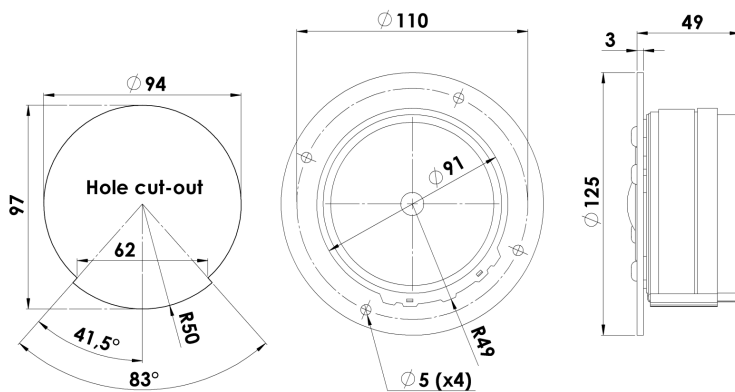




## TWEETER

## D3806/820000

D3806/820000 was one the very first Scan-Speak products, now been on the market more than 4 decades and continuing being successful as one of the best upper midranges on the market.



### KEY FEATURES:

- 1½" Textile Dome Diaphragm
- Patented Symmetrical Drive (SD-2) motor
- Black Painted Alu Face Plate
- Optimized for Upper Midrange
- Low Resonant Rear Chamber

#### T-S Parameters

|                               |                    |
|-------------------------------|--------------------|
| Resonance frequency [fs]      | 450 Hz             |
| Mechanical Q factor [Qms]     | 0.93               |
| Electrical Q factor [Qes]     | 1.00               |
| Total Q factor [Qts]          | 0.48               |
| Force factor [Bl]             | 3.6 Tm             |
| Mechanical resistance [Rms]   | 2.44 kg/s          |
| Moving mass [Mms]             | 0.8 g              |
| Compliance [Cms]              | 0.16 mm/N          |
| Effective diaph. diameter [D] | 42 mm              |
| Effective piston area [Sd]    | 14 cm <sup>2</sup> |
| Equivalent volume [Vas]       | 0.04 l             |
| Sensitivity (2.83V/1m)        | 89 dB              |
| Ratio Bl/√Re                  | 1.51 N/√W          |
| Ratio fs/Qts                  | 938 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: April 30, 2013.

#### Electrical Data

|                            |         |
|----------------------------|---------|
| Nominal impedance [Zn]     | 6 Ω     |
| Minimum impedance [Zmin]   | 6.3 Ω   |
| Maximum impedance [Zo]     | 11.0 Ω  |
| DC resistance [Re]         | 5.7 Ω   |
| Voice coil inductance [Le] | 0.04 mH |

#### Power Handling

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

\*Filter: 2. order HP Butterworth, 1 kHz

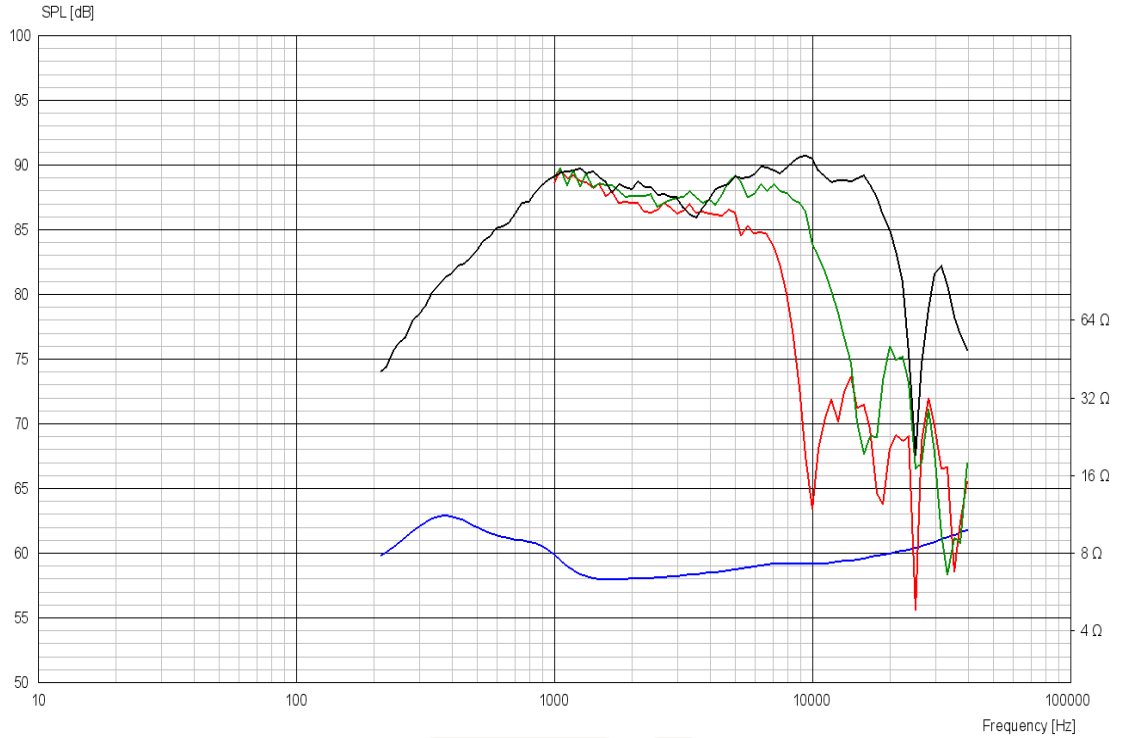
#### Voice Coil & Magnet Data

|                     |          |
|---------------------|----------|
| Voice coil diameter | 38 mm    |
| Voice coil height   | 3.2 mm   |
| Voice coil layers   | 2        |
| Height of gap       | 2.5 mm   |
| Linear excursion    | ± 0.4 mm |
| Max mech. excursion | ± 1 mm   |
| Unit weight         | 1.1 kg   |

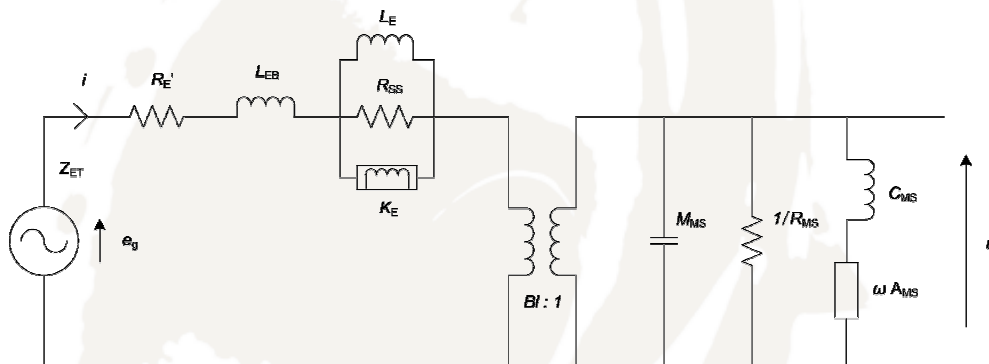


# TWEETER

# D3806/820000



## 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 [BI]           | - Tm   |
| Moving mass [Mms]           | - g    |
| Compliance [Cms]            | - mm/N |
| Mechanical resistance [Rms] | - kg/s |
| Admittance [Ams]            | - mm/N |