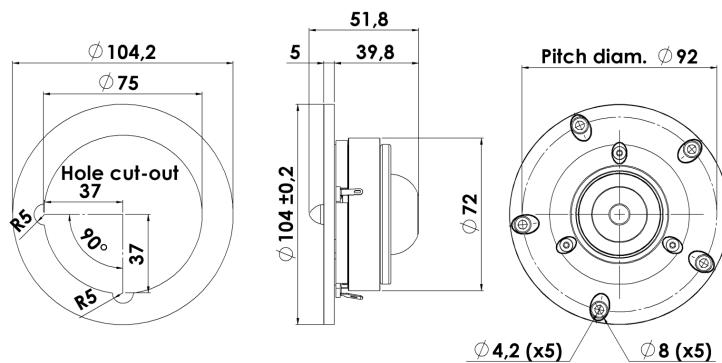




## TWEETER

## R2604/832000

The Discovery series offer traditional design, superior sound, a solid construction, and a wide range of variants. Combining these elements - plus a wealth of technical features and finesses - it gives our customers the possibility of acquiring a tailor-made Scan-Speak solution with very good performance at a reasonable low price point!



### KEY FEATURES:

- Extended Frequency To Above 40KHz
- Low Distortion
- Wave-guide center plug (Patent)
- Very Low Resonance Frequency - 500Hz
- Dual Ring Radiator diaphragm (Patent)
- Textile Diaphragm

#### T-S Parameters

|                               |                     |
|-------------------------------|---------------------|
| Resonance frequency [fs]      | 500 Hz              |
| Mechanical Q factor [Qms]     | 2.77                |
| Electrical Q factor [Qes]     | 0.52                |
| Total Q factor [Qts]          | 0.44                |
| Force factor [Bl]             | 2.3 Tm              |
| Mechanical resistance [Rms]   | 0.34 kg/s           |
| Moving mass [Mms]             | 0.3 g               |
| Suspension compliance [Cms]   | 0.34 mm/N           |
| Effective diaph. diameter [D] | 26 mm               |
| Effective piston area [Sd]    | 5.4 cm <sup>2</sup> |
| Equivalent volume [Vas]       | 0.01 l              |
| Sensitivity (2.83V/1m)        | 90.0 dB             |
| Ratio Bl/ $\sqrt{Re}$         | 1.35 N/ $\sqrt{W}$  |
| Ratio fs/Qts                  | 1147 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: February 22, 2011.

#### Electrical Data

|                            |               |
|----------------------------|---------------|
| Nominal impedance [Zn]     | 4 $\Omega$    |
| Minimum impedance [Zmin]   | 3.7 $\Omega$  |
| Maximum impedance [Zo]     | 18.4 $\Omega$ |
| DC resistance [Re]         | 2.9 $\Omega$  |
| Voice coil inductance [Le] | 0.02 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, 2.5 kHz

#### Voice Coil and Magnet Data

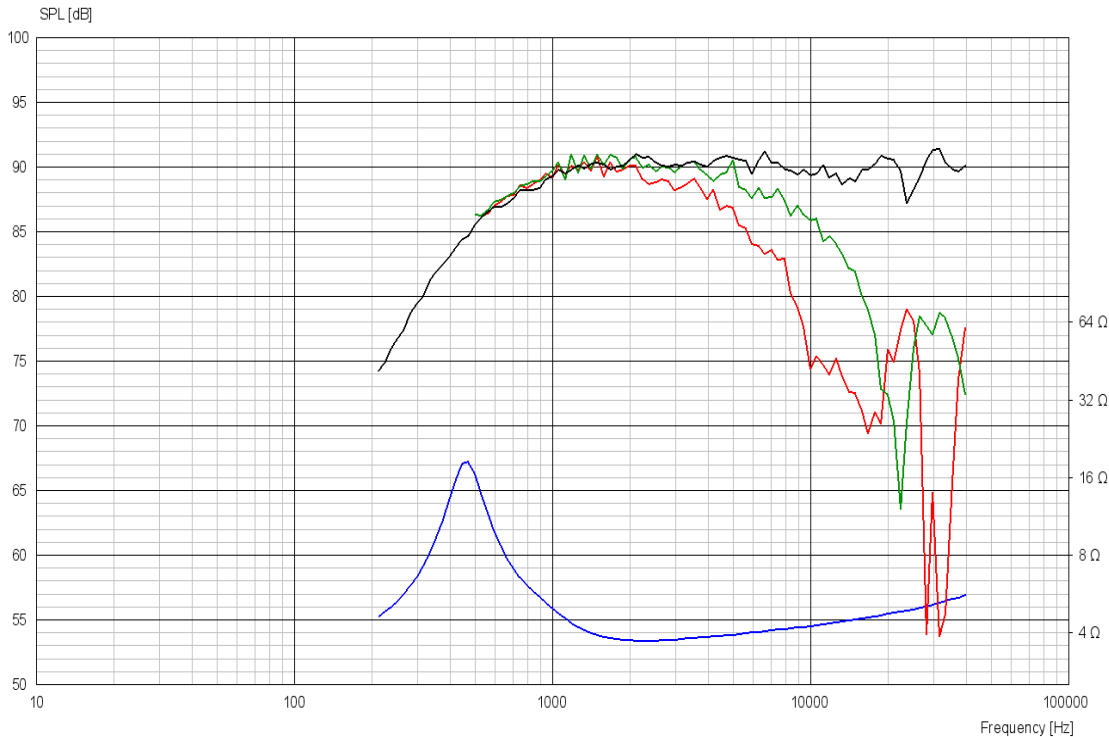
|                     |              |
|---------------------|--------------|
| Voice coil diameter | 26 mm        |
| Voice coil height   | 2.2 mm       |
| Voice coil layers   | 2            |
| Height of gap       | 2.5 mm       |
| Linear excursion    | $\pm 0.2$ mm |
| Max mech. excursion | $\pm 1.6$ mm |
| Unit weight         | 0.5 kg       |



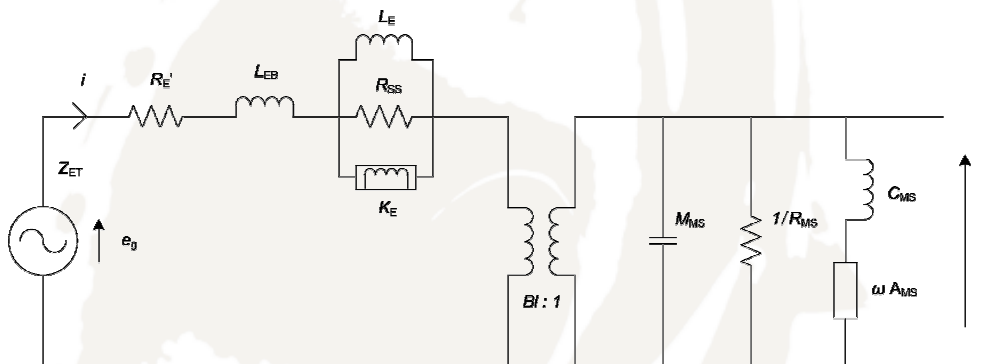
DISCOVERY

# TWEETER

R2604/832000



## 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 |



SCANSPEAK