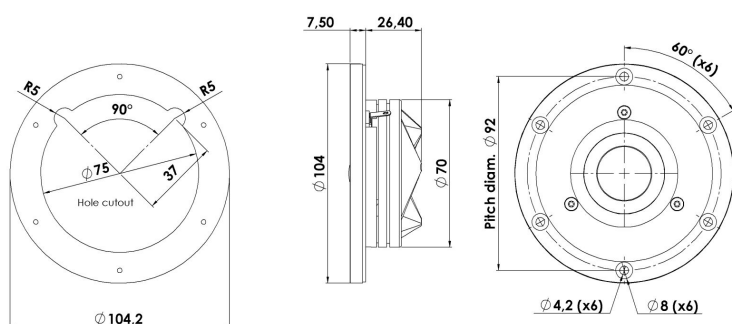


# REVELATOR

## TWEETER

## D2904/710002

The Revelator Tweeters large roll surround technology represents a breakthrough in overall performance, with outstanding off-axis response, high output capability and low resonance frequency. Additional enhancements have been made to reduce distortion and power compression, such as large neodymium magnet systems for high sensitivity, and a careful design to optimise airflow in the chambers.



### KEY FEATURES:

- 1" Coated Textile Diaphragm
- Patented Symmetrical Drive (SD-2) motor
- Non Resonant Alu Rear Chamber
- Large Roll Surround f. Wide Dispersion
- Large Ring Neo Magnet f. High Output
- Silver Anodized Machined Alu Face Plate

#### T-S Parameters

|                               |                   |
|-------------------------------|-------------------|
| Resonance frequency [fs]      | 520 Hz            |
| Mechanical Q factor [Qms]     | 3.50              |
| Electrical Q factor [Qes]     | 0.50              |
| Total Q factor [Qts]          | 0.44              |
| Force factor [Bl]             | 2.8 Tm            |
| Mechanical resistance [Rms]   | 0.37 kg/s         |
| Moving mass [Mms]             | 0.4 g             |
| Compliance [Cms]              | 0.23 mm/N         |
| Effective diaph. diameter [D] | 30 mm             |
| Effective piston area [Sd]    | 7 cm <sup>2</sup> |
| Equivalent volume [Vas]       | 0.02 l            |
| Sensitivity (2.83V/1m)        | 94.4 dB           |
| Ratio Bl/√Re                  | 1.62 N/√W         |
| Ratio fs/Qts                  | 1189 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 17, 2019.

#### Electrical Data

|                            |         |
|----------------------------|---------|
| Nominal impedance [Zn]     | 4 Ω     |
| Minimum impedance [Zmin]   | 3.7 Ω   |
| Maximum impedance [Zo]     | 24.0 Ω  |
| DC resistance [Re]         | 3 Ω     |
| Voice coil inductance [Le] | 0.01 mH |

#### Power Handling

|                                 |       |
|---------------------------------|-------|
| 100h RMS noise test (IEC 17.1)* | 90 W  |
| Long-term max power (IEC 17.3)* | 150 W |

\*Filter: 2. order HP Butterworth, 2.5 kHz

#### 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         | 0.4 kg   |



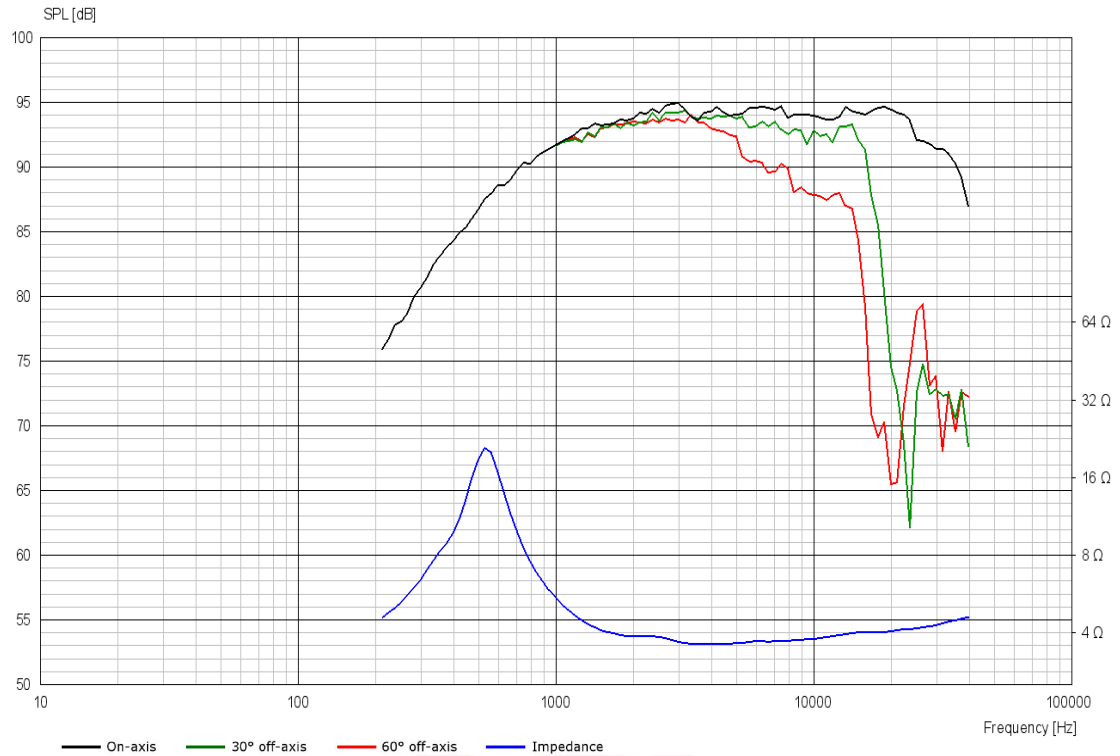
# SCANSPEAK



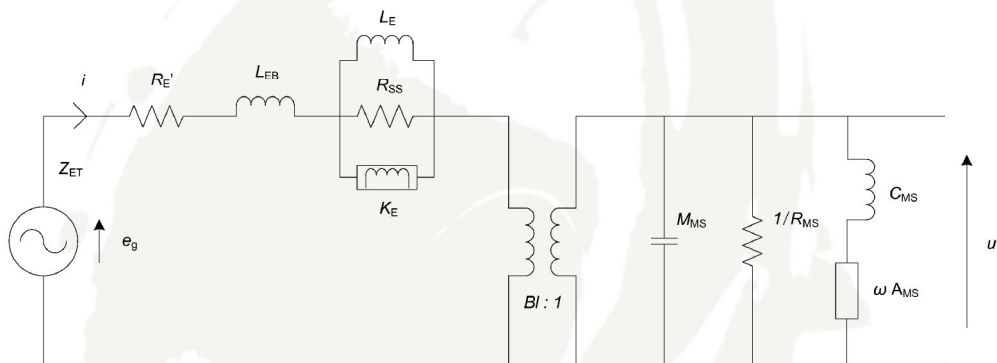
# REVELATOR

## TWEETER

## D2904/710002



## Advanced Parameters (Preliminary)



### Electrical data

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

### Mechanical Data

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



# SCAN SPEAK