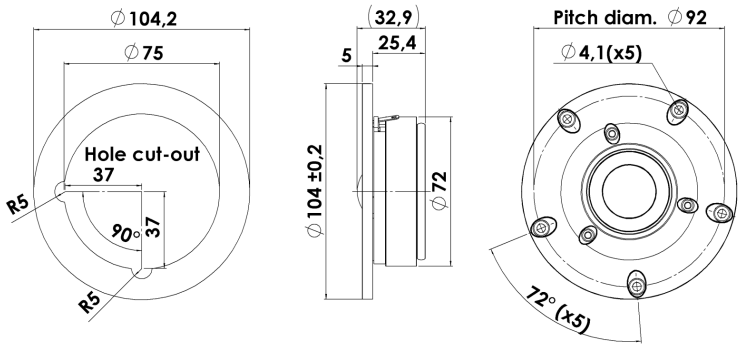
DISCOVERY

TWEETER D2604/830000

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:

- High sensitivity - 92dB
- Low Resonance Frequency - 630Hz
- Wide Dispersion
- Extended Frequency to Above 30KHz
- Low Distortion
- Textile Diaphragm, Wide Surround

T-S Parameters

Resonance frequency [fs]	630 Hz
Mechanical Q factor [Qms]	3.46
Electrical Q factor [Qes]	1.02
Total Q factor [Qts]	0.79
Force factor [Bl]	2.2 Tm
Mechanical resistance [Rms]	0.48 kg/s
Moving mass [Mms]	0.42 g
Suspension compliance [Cms]	0.15 mm/N
Effective diaph. diameter [D]	32 mm
Effective piston area [Sd]	8 cm²
Equivalent volume [Vas]	0.01 l
Sensitivity (2.83V/1m)	92.1 dB
Ratio Bl/√Re	1.31 N/√W
Ratio fs/Qts	800 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 29, 2011.

Electrical Data

Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	3.7 Ω
Maximum impedance [Zo]	12.3 Ω
DC resistance [Re]	2.8 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, 2.5 kHz

Voice Coil and Magnet Data

Voice coil diameter	26 mm
Voice coil height	2 mm
Voice coil layers	2
Height of gap	2.5 mm
Linear excursion	± 0.3 mm
Max mech. excursion	± 1.6 mm
Unit weight	0.5 kg

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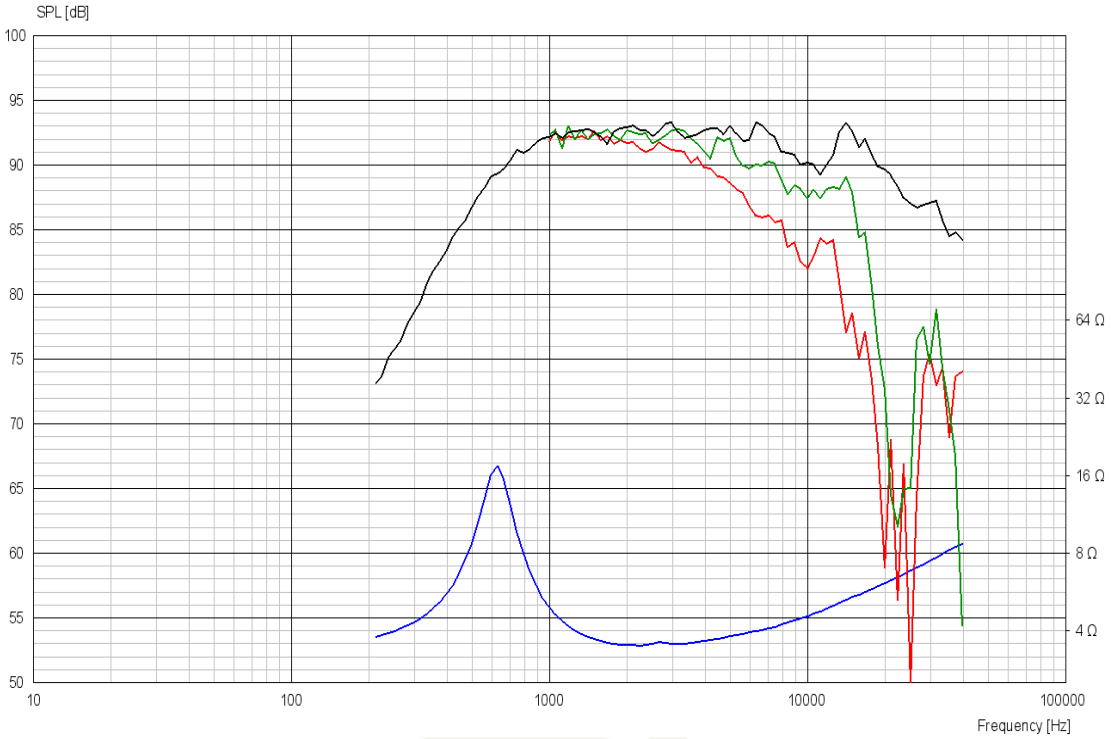
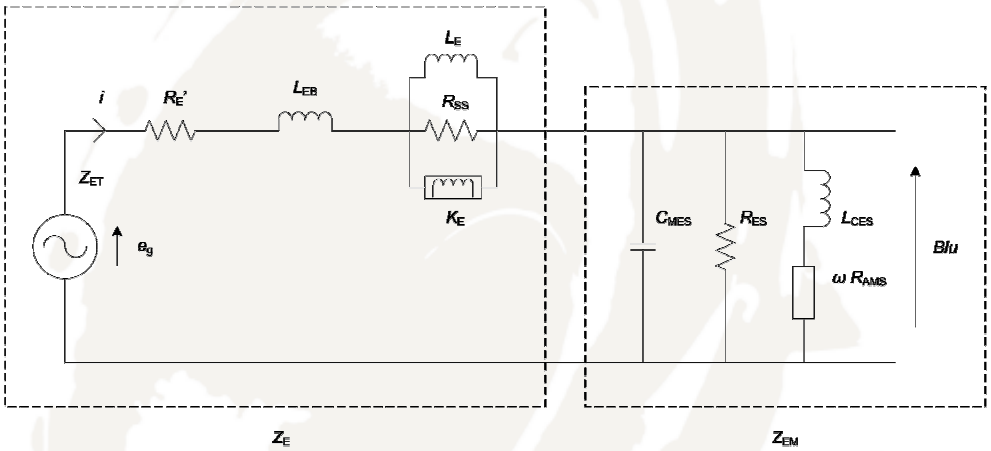


Advanced Parameters (Preliminary)



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 resistance [Rams]	- mΩ·s

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