

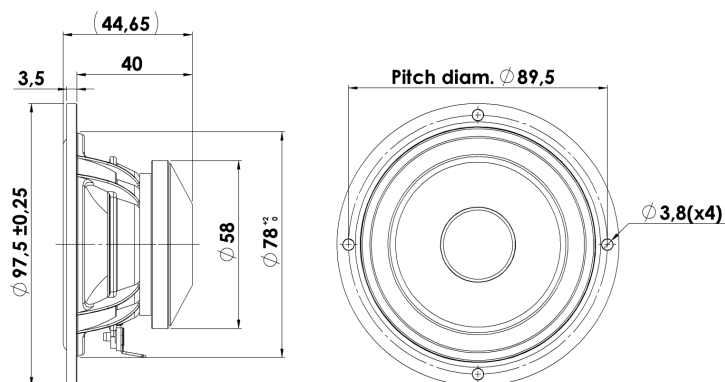


# DISCOVERY

## FULLRANGE

## 10F/4424G00

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:

- Very wide Frequency Range
- Coated NRSC Fibre Glass Cone (patent)
- Compact Size, Neo magnet, Alu. Chassis
- High Sensitivity 90dB / 2,83V
- SBR Rubber Surround
- Copper Cap on Pole Piece

#### T-S Parameters

Resonance frequency [fs]	90 Hz
Mechanical Q factor [Qms]	3.2
Electrical Q factor [Qes]	0.32
Total Q factor [Qts]	0.29
Force factor [Bl]	3.9 Tm
Mechanical resistance [Rms]	0.49 kg/s
Moving mass [Mms]	2.8 g
Suspension compliance [Cms]	1.1 mm/N
Effective diaph. diameter [D]	68 mm
Effective piston area [Sd]	36 cm <sup>2</sup>
Equivalent volume [Vas]	2.0 l
Sensitivity (2.83V/1m)	89.8 dB
Ratio Bl/√Re	2.2 N/√W
Ratio fs/Qts	309 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 Ω
Minimum impedance [Zmin]	3.8 Ω
Maximum impedance [Zo]	34.5 Ω
DC resistance [Re]	3.2 Ω
Voice coil inductance [Le]	0.1 mH

#### Power Handling

100h RMS noise test (IEC 17.1)	15 W
Long-term max power (IEC 17.3)	30 W

#### Voice Coil and Magnet Data

Voice coil diameter	20 mm
Voice coil height	9.2 mm
Voice coil layers	2
Height of gap	4 mm
Linear excursion	± 2.6 mm
Max mech. excursion	± 7 mm
Unit weight	0.3 kg



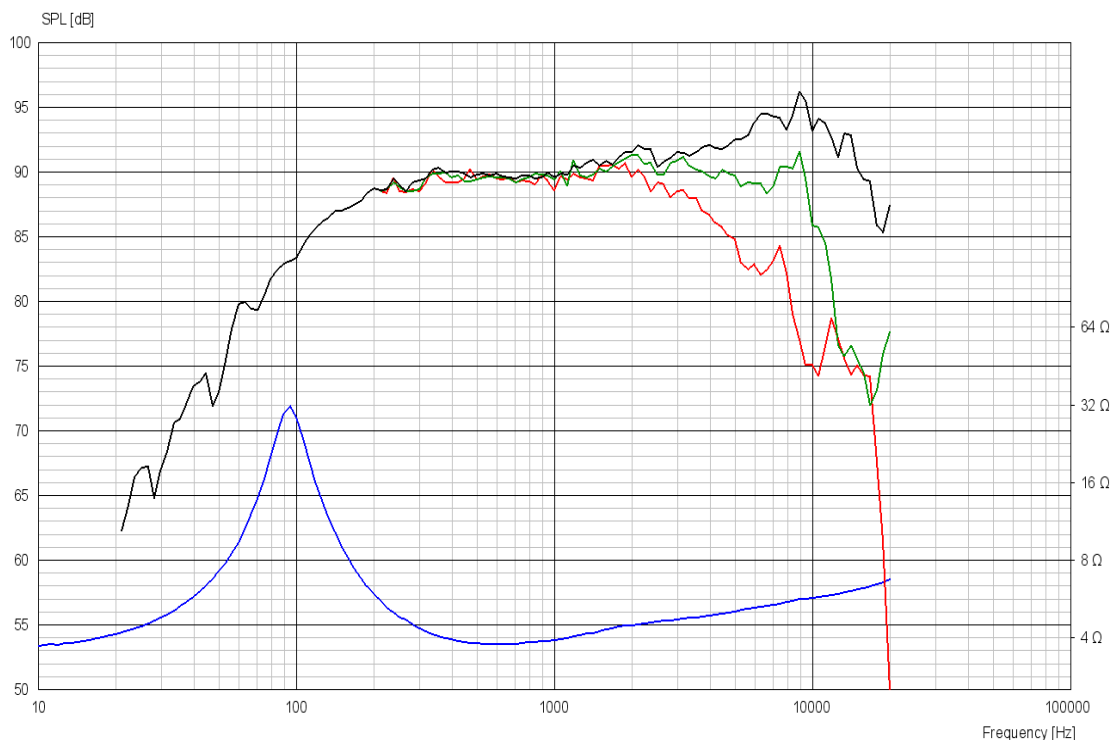
# SCANSPEAK



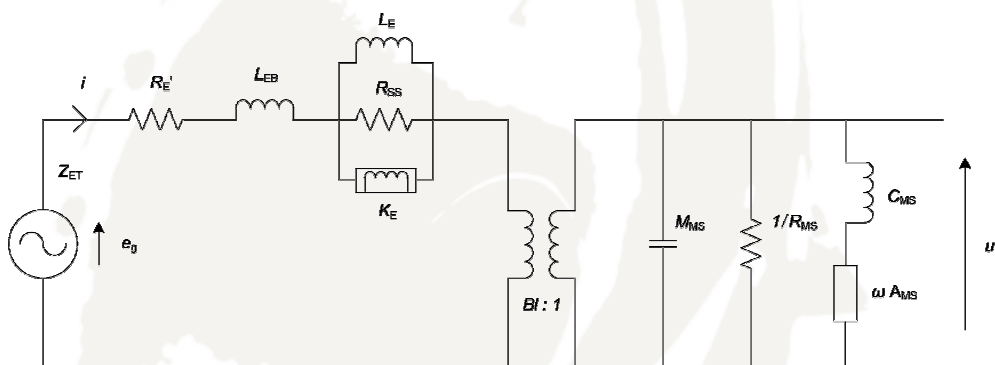
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## Advanced Parameters (Preliminary)



### Electrical data:

Resistance [Re']	3.47 Ω
Free inductance [Leb]	0.0278 mH
Bound inductance [Le]	0.236 mH
Semi-inductance [Ke]	0.0267 SH
Shunt resistance [Rss]	3.16 Ω

### Mechanical Data

Force Factor [Bl]	4.01 Tm
Moving mass [Mms]	3.11 g
Compliance [Cms]	0.759 mm/N
Mechanical resistance [Rms]	0.334 kg/s
Admittance [Ams]	0.138 mm/N



SCANSPEAK