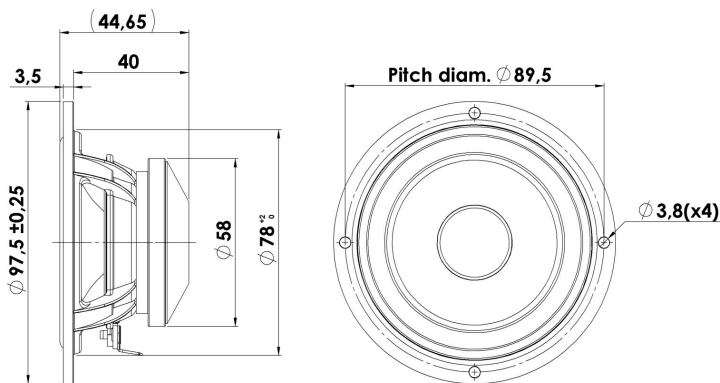




# FULLRANGE

# 10F/8424G00

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 - 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 87dB / 2,83V
- SBR Rubber Surround
- Copper Cap on Pole Piece

### T-S Parameters

Resonance frequency [fs]	90 Hz
Mechanical Q factor [Qms]	3.49
Electrical Q factor [Qes]	0.41
Total Q factor [Qts]	0.37
Force factor [Bl]	4.8 Tm
Mechanical resistance [Rms]	0.45 kg/s
Moving mass [Mms]	2.77 g
Compliance [Cms]	1.13 mm/N
Effective diaph. diameter [D]	68 mm
Effective piston area [Sd]	36 cm <sup>2</sup>
Equivalent volume [Vas]	2.1 l
Sensitivity (2.83V/1m)	86.6 dB
Ratio Bl/√Re	1.99 N/√W
Ratio fs/Qts	245 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 30, 2013.

### Electrical Data

Nominal impedance [Zn]	8 $\Omega$
Minimum impedance [Zmin]	6.5 $\Omega$
Maximum impedance [Zo]	55.2 $\Omega$
DC resistance [Re]	5.8 $\Omega$
Voice coil inductance [Le]	0.13 mH

### Power Handling

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

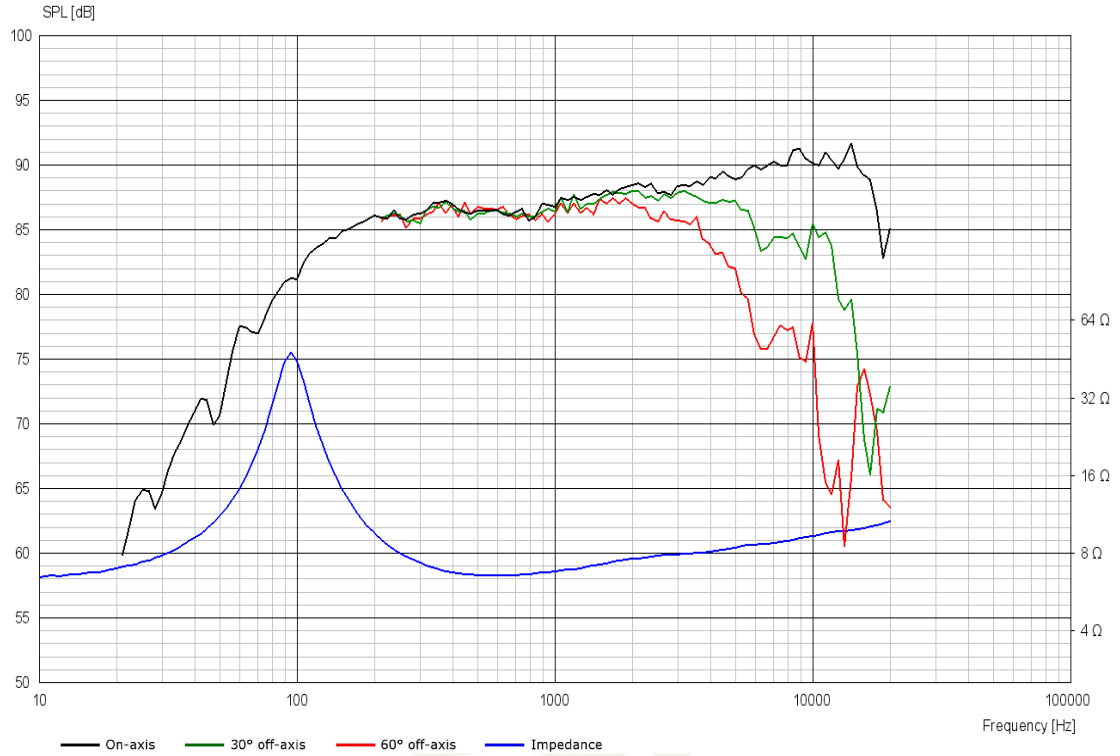
### Voice Coil & Magnet Data

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

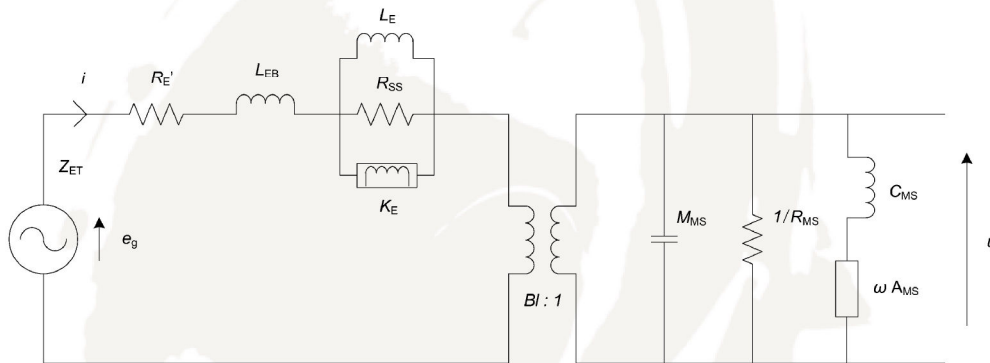


# FULLRANGE

# 10F/8424G00



## Advanced Parameters (Preliminary)



### Electrical data

Resistance [Re']	5.78 Ω
Free inductance [Leb]	0.029 mH
Bound inductance [Le]	0.35 mH
Semi-inductance [Ke]	0.045 SH
Shunt resistance [Rss]	4 Ω

### Mechanical Data

Force Factor [BI]	4.75 Tm
Moving mass [Mms]	3.2 g
Compliance [Cms]	0.66 mm/N
Mechanical resistance [Rms]	0.56 kg/s
Admittance [Ams]	0.08 mm/N