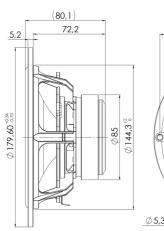


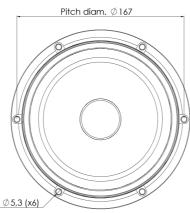
# **DISCOVERY**

## **MIDWOOFER**

## 18W/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 - 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 Output 89,5dB @ 2,83V
- · Coated NRSC Fibre Glass Cone
- Die cast Alu Chassis vented below spider
- Excellent Midrange Performance
- · Low Damping SBR Rubber Surround

### **T-S Parameters**

Resonance frequency [fs]	54 Hz
Mechanical Q factor [Qms]	4.04
Electrical Q factor [Qes]	0.51
Total Q factor [Qts]	0.45
Force factor [BI]	6.6 Tm
Mechanical resistance [Rms]	0.95 kg/s
Moving mass [Mms]	11.3 g
Suspension compliance [Cms]	0.77 mm/N
Effective diaph. diameter [D]	132 mm
Effective piston area [Sd]	137 cm <sup>2</sup>
Equivalent volume [Vas]	20.3
Sensitivity (2.83V/1m)	89.4 dB
Sensitivity (2.83V/1m) Ratio Bl/√Re	89.4 dB 2.76 N/√W

#### 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**

Unit weight

Liecti icai Data	
Nominal impedance [Zn]	8 Ω
Minimum impedance [Zmin]	6.4 Ω
Maximum impedance [Zo]	50.9 Ω
DC resistance [Re]	5.7 Ω
Voice coil inductance [Le]	0.69 mH
Power Handling	
100h RMS noise test (IEC 17.1)	50 W
Long-term max power (IEC 17.3)	110 W
Voice Coil and Magnet Data	
Voice coil diameter	25 mm
Voice coil height	10.2 mm
Voice coil layers	2
Height of gap	5 mm
Linear excursion	± 2.6 mm
Max mech. excursion	± 8 mm

1.1 kg

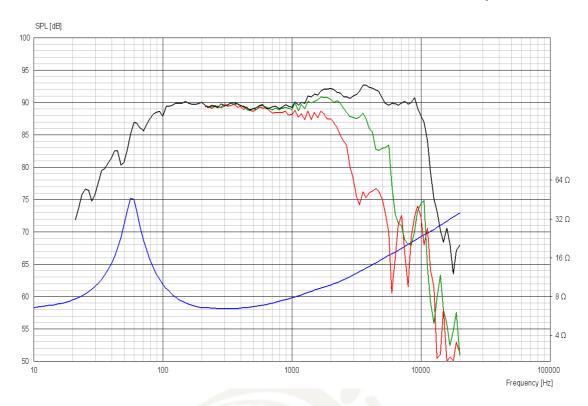




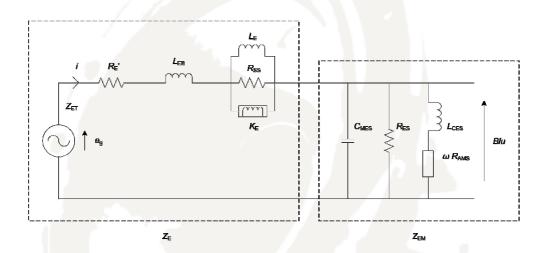
# DISCOVERY

## **MIDWOOFER**

## 18W/8424G00



# Advanced Parameters (Preliminary)



#### **Electrical data:**

Resistance [Re']	5.69 Ω
Free inductance [Leb]	0.0401 mH
Bound inductance [Le]	0.830 mH
Semi-inductance [Ke]	0.0932 SH
Shunt resistance [Rss]	2292 Ω

#### **Mechanical Data**

Force Factor [BI]	6.04 Tm
Moving mass [Mms]	10.8 g
Compliance [Cms]	0.748 mm/N
Mechanical resistance [Rms]	0.420 kg/s
Admittance resistance [Rams]	4.03 mΩ·s

