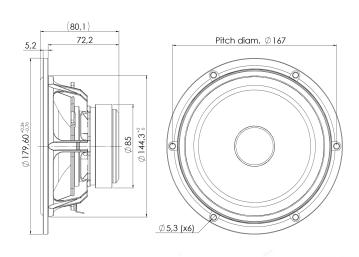


DISCOVERY

MIDWOOFER

18W/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:

T-S Parameters

- · High Output 91dB @ 2,83V
- Coated NRSC Fibre Glass Cone
- Die cast Alu Chassis vented below spider
- · Excellent Midrange Performance

Electrical Data

· Low Damping SBR Rubber Surround

Resonance frequency [fs]	49 Hz
Mechanical Q factor [Qms]	4.57
Electrical Q factor [Qes]	0.42
Total Q factor [Qts]	0.38
Force factor [BI]	5.2 Tm
Mechanical resistance [Rms]	0.77 kg/s
Moving mass [Mms]	11.4 g
Compliance [Cms]	0.92 mm/N
Effective diaph. diameter [D]	132 mm
Effective piston area [Sd]	137 cm ²
Equivalent volume [Vas]	24.1
Sensitivity (2.83V/1m)	90.9 dB
Ratio Bl/√Re	2.91 N/√W
Ratio fs/Ots	128 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.

$\begin{tabular}{lll} Nominal impedance [Zn] & 4 Ω \\ \hline Minimum impedance [Zmin] & 4.1 Ω \\ \hline Maximum impedance [Zo] & 38.0 Ω \\ \hline DC resistance [Re] & 3.2 Ω \\ \hline Voice coil inductance [Le] & 0.47 mH \\ \hline \end{tabular}$

Power Handling 100h RMS noise test (IEC 17.1) 50 W Long-term max power (IEC 17.3) 110 W

Voice Coil & Magnet Data	
Voice coil diameter	25 mm
Voice coil height	10.5 mm
Voice coil layers	2
Height of gap	5 mm
Linear excursion	± 2.8 mm
Max mech. excursion	± 8 mm
Unit weight	1.1 kg

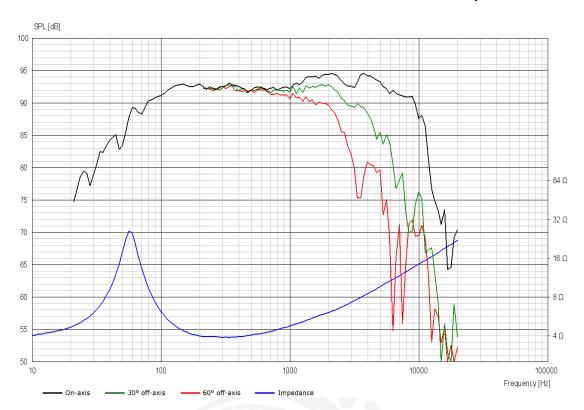




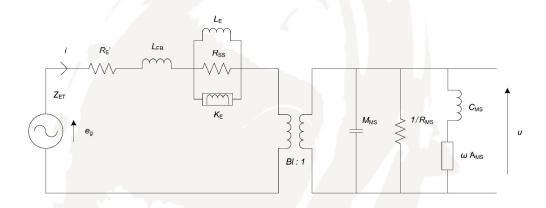
DISCOVERY

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Advanced Parameters (Preliminary)



Electrical data	
Resistance [Re']	3.19 Ω
Free inductance [Leb]	0.040 mH
Bound inductance [Le]	0.61 mH
Semi-inductance [Ke]	0.061 SH
Shunt resistance [Rss]	208 Ω

Mechanical Data	
Force Factor [BI]	5.19 Tm
Moving mass [Mms]	12.6 g
Compliance [Cms]	0.74 mm/N
Mechanical resistance [Rms]	0.99 kg/s
Admittance [Ams]	0.10 mm/N

