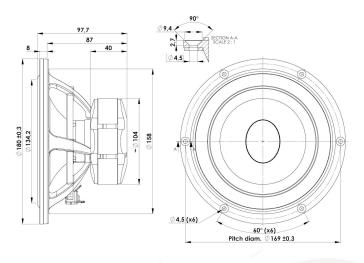




MIDWOOFER

18WE/8542T00

With the Ellipticor family a long tradition of circular motor structures and their inherent breakup behavior has been broken since one of its key features is an elliptical voice coil and magnet gap. In combination with the powerful SD AirCirc magnet system the 18WE has high sensitivity, very low distortion, and has an extremely fast response to transients. Above all a TRUE TO LIVE sound which makes 18WE/8542T00 one of the very best midwoofers on the market!





KEY FEATURES:

· Elliptic voice coil

T-S Parameters

- High sensitivity (SPL)
- · Unusually low distortion

AirCirc optimized magnetsystem

Resonance frequency [fs]	50 Hz
Mechanical Q factor [Qms]	5.01
Electrical Q factor [Qes]	0.34
Total Q factor [Qts]	0.32
Force factor [BI]	9.7 Tm
Mechanical resistance [Rms]	1 kg/s
Moving mass [Mms]	16 g
Compliance [Cms]	0.64 mm/N
Compliance [Cms] Effective diaph. diameter [D]	0.64 mm/N 130 mm
Effective diaph. diameter [D]	130 mm
Effective diaph. diameter [D] Effective piston area [Sd]	130 mm 133 cm ²
Effective diaph. diameter [D] Effective piston area [Sd] Equivalent volume [Vas]	130 mm 133 cm ² 16 l
Effective diaph. diameter [D] Effective piston area [Sd] Equivalent volume [Vas] Sensitivity (2.83V/1m)	130 mm 133 cm ² 16 l 89 dB

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: March 22. 2018

Very low mechanical losses

Electrical Data

Unit weight

· Flexible appearence with replaceable decor ring

Nominal impedance [Zn]	8 Ω
Minimum impedance [Zmin]	7.6 Ω
Maximum impedance [Zo]	100 Ω
DC resistance [Re]	6.3 Ω
Voice coil inductance [Le]	0.14 mH

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

50 W

1.7 kg

Voice Coil & Magnet Data	
Voice coil diameter	35/45 mm
Voice coil height	20.4 mm
Voice coil layers	2
Height of gap	5 mm
Linear excursion	± 7.7 mm
Max mech. excursion	± 12 mm

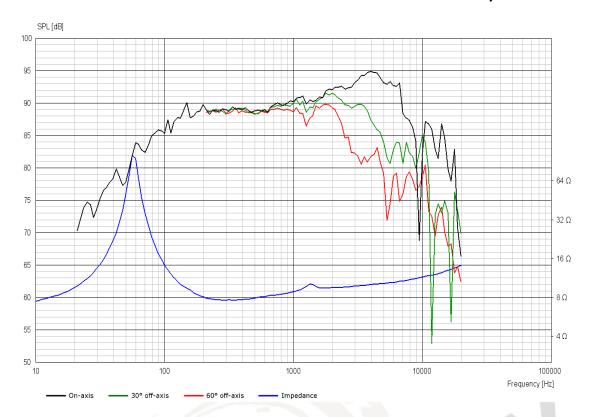




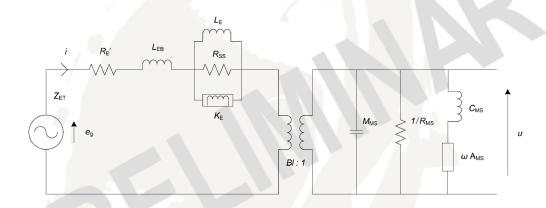


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18WE/8542T00



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 [BI]	- Tm
Moving mass [Mms]	- g
Compliance [Cms]	- mm/N
Mechanical resistance [Rms]	- kg/s
Admittance [Ams]	- mm/N

