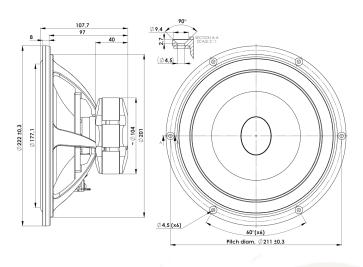




MIDWOOFER

21WE/4542T00

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 21WE has high sensitivity, very low distortion, and has an extremely fast response to transients. Above all a TRUE TO LIVE sound which makes 21WE/4542T00 one of the very best midwoofers on the market!





KEY FEATURES:

- · Elliptic voice coil
- High sensitivity (SPL)
- Unusually low distortion

- Very low mechanical losses
- AirCirc optimized magnetsystem
- Flexible appearence with replaceable decor ring

T-S Parameters

Resonance frequency [fs]	38 Hz
Mechanical Q factor [Qms]	5.43
Electrical Q factor [Qes]	0.30
Total Q factor [Qts]	0.28
Force factor [BI]	8.2 Tm
Mechanical resistance [Rms]	1.1 kg/s
Moving mass [Mms]	25 g
Compliance [Cms]	0.70 mm/N
Effective diaph. diameter [D]	172 mm
Effective piston area [Sd]	233 cm ²
Equivalent volume [Vas]	54 I
Sensitivity (2.83V/1m)	94.0 dB
Ratio BI/√Re	4.45 N/√W
Ratio fs/Qts	136 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: May 7, 2018.

Electrical Data

Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	4.3 Ω
Maximum impedance [Zo]	57 Ω
DC resistance [Re]	3.4 Ω
Voice coil inductance [Le]	0.1 mH
Power Handling	
100h RMS noise test (IEC 17.1)	50 W
Long-term max power (IEC 17.3)	100 W
Voice Coil & Magnet Data	
Voice coil diameter	35/45 mm
Voice coil height	19.5 mm
Voice coil layers	2

Voice coil height 19.5 mm Voice coil layers 2 Height of gap 5 mm Linear excursion 4 7.2 mm Max mech. excursion 4 12 mm Unit weight 1.8 kg

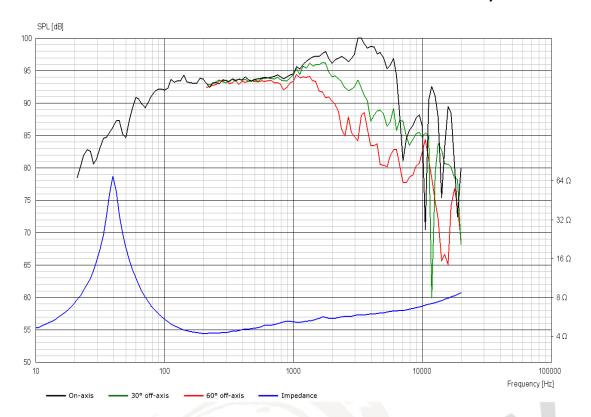




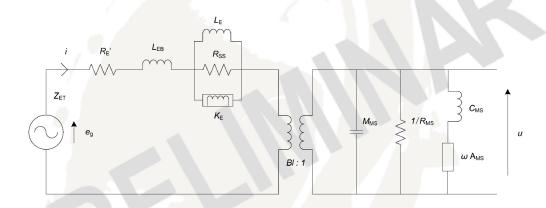


MIDWOOFER

21WE/4542T00



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

