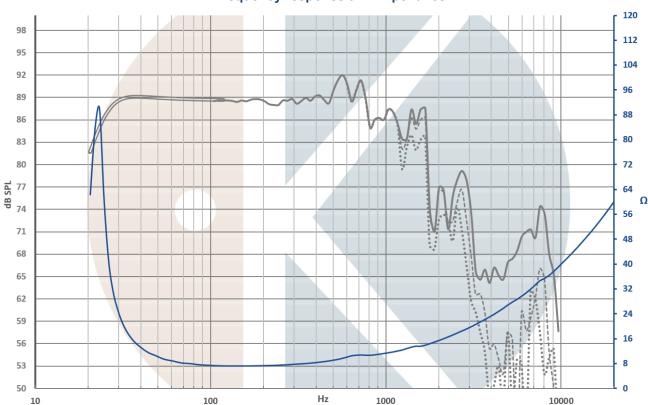




Sub265_vKi-V is top of the art high-end subwoofer, engineered to reproduce 25Hz to 400Hz in 75L vented enclosure at -3dB.

- +/- 16mm pure linear excursion, allowing exact reproduction of low frequency signals.
- Very low dynamic compression (0.5dB max, from 20 to 400Hz, with 105dB at 1m).
- Very low Total Harmonic Distortion on the useful band, including in low frequency (below 1% at 35Hz with 95dB output).
- Very low Inter Modulation Distortion.
- Engineered and produced in France

Frequency response and Impedance



On IEC baffle / Distance: 1m / Signal input: 2,83V / Dash curves: 20° & 40° / Smoothing: 1/12 Octave Impedance measured in free air

Curve below 110Hz simulated in 75L vented enclosure / Vent tuning = 25Hz.

Datasheet for	Sub265_vKi-V
Edition	1.5
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Kartesian products can be adapted to specific requirements and brand spirit. Each _vKi drivers is delivered with its QC report.

We continually improve our products, no contractual data.





Detailed construction

Membrane

4 layers - vented paper cone Large concave CGF dust cap

Suspension

Tri-radius half roll surround
Surround with radial reinforcements
Low lost NBR surround material
Dual spiders, vented spacers
2x progressiF spiders

Voice coil:

Ø78.5mm, 2 layers, Cu round wire Vented Titanium / GF former

Motor structure:

8x radial NdFeB magnets (grade N40H)

8x Cooper struts

2x Aluminium rings

Optimized and vented pole pieces Low carbon steel

Frame

Injected aluminium (ACD12) Vented spider

Driver weight: 4.92Kgs

T&S parameters

Parameter	Unit	Value	Tolerance
Fs	Hz	24Hz	+/-3
SPL	dB/2.83V/1m	87.5	+/-0.5
BI	N/A	13.8	+/-0.15
Mms	g	82	+/-3
Rms	Kg/s	1.58	
Le (at 1kHz)	mH	0.7	+/-0.08
Re	Ω	6.5	+/-0.15
Impedance	Ω	8	
Qms		7.8	
Qes		0.422	
Qts		0.4	
VAS	L	91.1	
Sd	cm²	346	
Mmd / Sd	g/cm²	0.22	
BI / Re	T.m/Ω	2.12	

Linear excursion: +/-16 mm BI(x) deviation max: 15%

Maximal power handling: 600W

(AES:2012 standard)

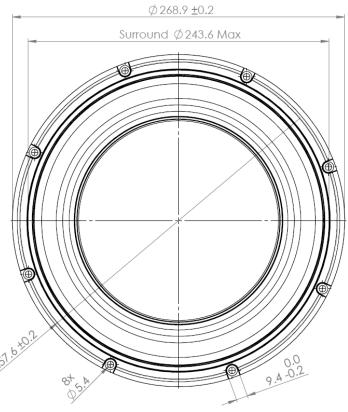
Maximal excursion: +/-20mm

BI(x) deviation max: 20%

14.9 + 15mm X max 127.2 ±0.5	Unit: mm
7.7 ±0.2	D151.640.2

Drawing

IL. IIIIII



Datasheet for	Sub265_vKi-V	
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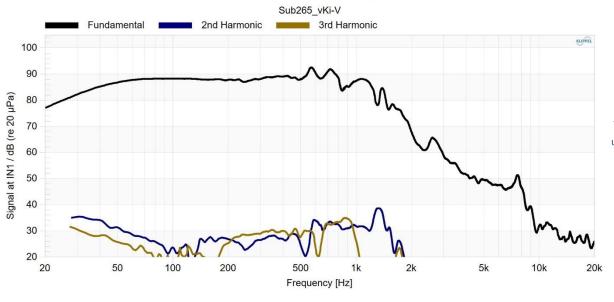
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Advanced measurements (1/2)

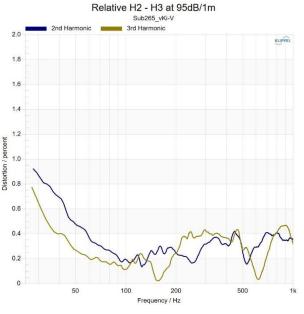
Fundamental + H2 & H3

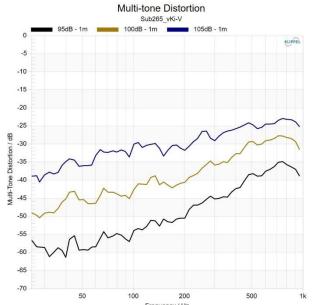


H2 - H3 for 2.83V

Very low THD on the useful band, including in low frequency.

(Advised bandwidth: from 25 to 400Hz).

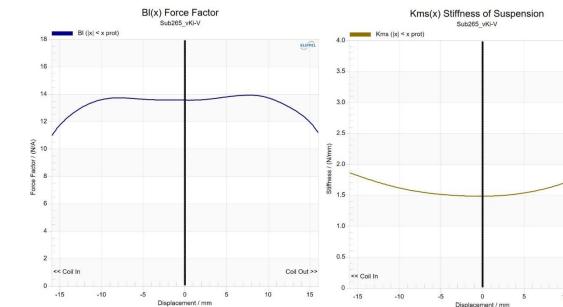




Distortion details

THD is lower than 1% at 35Hz when Sub265_vKi-V is playing 95dB at 1m.

Very low MD in low frequency, even at 105dB at 1m.



Linear excursion

+/-16mm linear motion with BI[x) curve shape suitable to Kms(x)

Force factor remains stable with 90% accuracy on the full excursion.

Suspension stiffness increase smoothly to ensure soft Fs variation

Coil Out >>

15

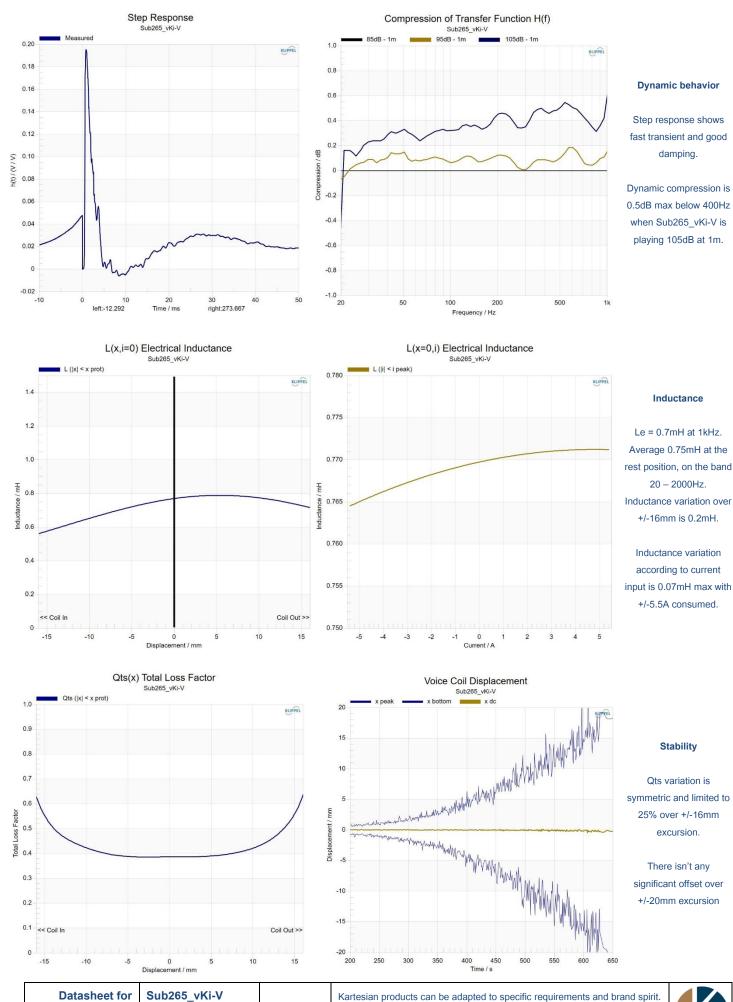
	Datasheet for	Sub265_vKi-V	
ĺ	Edition	1.5	
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Advanced measurements (2/2)





Edition

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