PUNKTKILDE®

Datasheet updated: 06-03-2019

Compact model: FSB611015-1402

This compact driver design features patented symmetry suspension, which provides excellent centering of voice coil at high excursion. Integral "one-piece" Magaluma diaphragm and voice coil former design to aid cooling of the motor. The diaphragm comes equipped with special-designed rubber surround, which helps to dampen the diaphragm resonance. The basket, voice coil former and bottom plate are vented to reduce air compression and lower distortion. This product was designed with compact sound bars and portable speaker applications.

Transducer front and side images:

Prototype

Specifications:

T-S Parameters	
Resonance frequency [fs]	116 Hz
Mechanical Q factor [Qms]	1.514
Electrical Q factor [Qes]	0.343
Total Q factor [Qts]	0.279
Force factor [Bl]	4.602 Tm
Mechanical resistance [Rms]	1.299 kg/s
Moving mass [Mms]	2.686 g
Compliance [Cms]	0.694 mm/N
Effective diaph. diameter [D]	35.5 mm
Effective piston area [Sd]	9.9 cm²
Equivalent volume [Vas]	0.096 l
Sensitivity (2.83V/1m)	80 dB
Ratio Bl/√Re	2.4 N/√W
Ratio fs/Qts	415 Hz

Electrical Data	
Nominal impedance [Zn]	4 Ω
Minimum impedance [Zmin]	3.841 Ω
Maximum impedance [Zo]	15.4 Ω
DC resistance [Re]	3.7 Ω
Voice coil inductance [Le]	0.261 mH

Power Handling	
100h RMS noise test (IEC 18.4)	10 W
Long-term max power (IEC 18.2)	- W

Voice Coil & Magnet Data	
Voice coil diameter	30.5 mm
Voice coil height	7.1 mm
Voice coil layers	4
Height of gap	3 mm
Linear excursion	± 2.05 mm
Max mech. excursion	± 4.0 mm
Unit weight	0.143 kg

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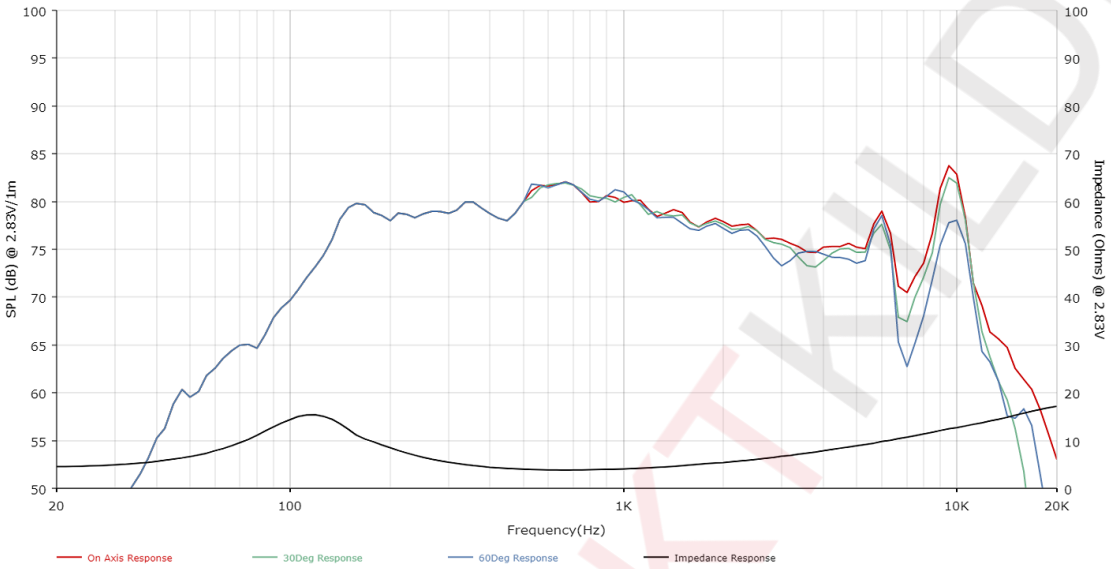
Frequency Response / Impedance Curve:



Transducer front and side images: