

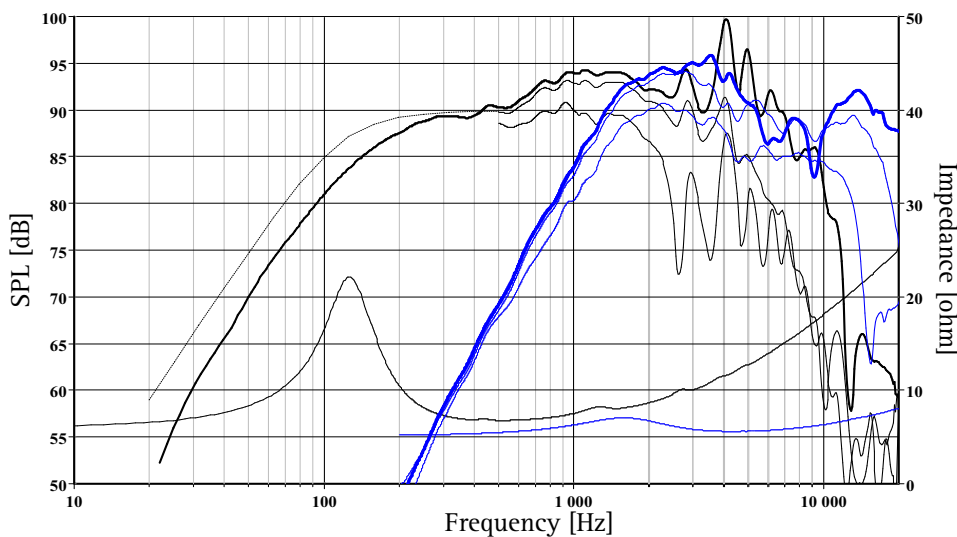
The MR18REX/XF is a midrange coaxial loudspeaker providing high quality sound in a very compact format.

The cone of the midrange acts as a horn loading for the tweeter, and the chassis of the dome unit represents the throat of this horn.

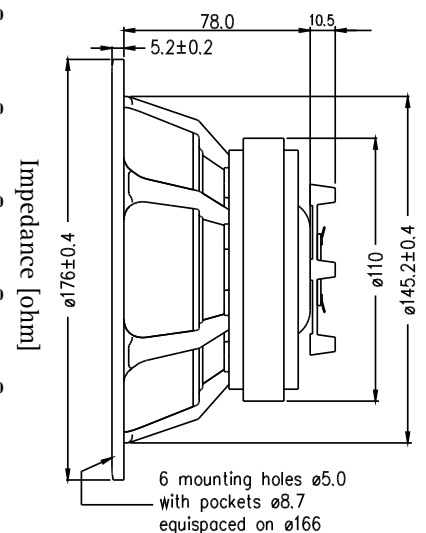
The coaxially arranged precoated fabric dome high frequency unit has a smooth frequency response, and integrates with the cone driver to a point source. Voice coil windings immersed in magnetic fluid increase short term power handling capacity and reduce the compression at high power levels.

The pre-coated reed-paper cone acts as a piston throughout the recommended frequency range.

The completely new rubber surround reduces resonances and prevents surround break up in the midrange band. The surround's small inverted roll, combined with a profile that follows the shape of the cone, results in almost total elimination of diffraction effects on the tweeter's output.



The frequency responses above show measured free field sound pressure in 0, 30, and 60 degrees angle using a 12L closed box. Input 2.83 VRMS, microphone distance 0.5m, normalized to SPL 1m. The dotted line is a calculated response in infinite baffle based on the parameters given for this specific driver. The impedance is measured in free air without baffle using a 2V sine signal.



	Midrange	Tweeter		Midrange	Tweeter
Nominal Impedance	8 Ohms	6 Ohms	Voice Coil Resistance	6.2 Ohms	5 Ohms
Recommended Frequency Range	200-2200Hz	2000-25000	Voice Coil Inductance	0.43 mH	0.05 mH
Short Term Power Handling *	250 W	220 W	Force Factor	8.3 N/A	3.1 N/A
Long Term Power Handling *	80 W	90 W	Free Air Resonance	126 Hz	1600 Hz
Characteristic Sensitivity (2.83V, 1m)	89 dB	91 dB	Moving Mass	11.8 g	0.3 g
Voice Coil Diameter	39 mm	26 mm	Air Load Mass In IEC Baffle	0.16 g	-
Voice Coil Height	12 mm	1.6 mm	Suspension Compliance	0.1mm/N	-
Air Gap Height	6 mm	2.0 mm	Suspension Mechanical Resistance	4.26Ns/m	-
Linear Coil Travel (p-p)	6 mm	0.4 mm	Effective Piston Area	126 cm ²	7 cm ²
Maximum Coil Travel (p-p)	12 mm	-	VAS	3 Litres	-
Magnetic Gap Flux Density	1.1 T	1.56 T	QMS	2.49	-
Magnet Weight	0.64 kg	-	QES	0.96	-
Total Weight	2.02 kg	-	QTS	0.69	-

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*IEC 268-5(Tweeter via high pass butterworth filter 3500 Hz, 12 dB/oct)

SEAS reserves the right to change technical data