



- Designed for high performance applications where ultimate sound quality, transparency and resolution is required from a highly coherent coaxial system
- planar ribbon HF with Kapton diaphragm
- extremely linear response extended to 30kHz
- precise 110° conical coverage ideal for cinema surround systems with immersive 3D digital audio formats
- 300 W continuous program power LF
- dual aluminum demodulation rings for low LF/MF distortion
- completely independent LF and HF magnetic systems eliminate flux modulation and related intermodulation distortion
- vented woofer frame with heat sink ribs
- optional premium XO

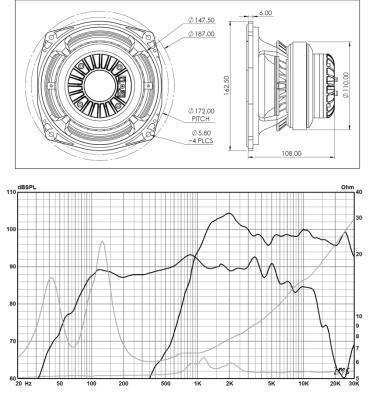
SPECIFICATIONS GENERAL/LF

SPECIFICATIONS GENERAL/LF	
Nominal diameter	6.5"/ 165mm
Rated impedance	8 Ω
Power handling ¹	150 W
Continuous program power ²	300 W
Sensitivity ³	91 dB
Rated frequency range⁴	60 Hz – 30 kHz
Coverage angle ⁵	110° conical
Recommended XO frequency	1.5 kHz
Minimum impedance	6.2 Ω
Cone material	paper/Kevlar composite
Voice coil diameter	51 mm (2")
Voice coil winding	2-layer
Voice coil wire	copper clad aluminum
Voice coil former	high temperature polyimide
Displacement limit for VC	13 mm
Voice coil winding height	13.5 mm
Magnetic gap height	6 mm
Suspension	M-roll, poly-cotton
Magnet	ferrite ring
Frame	cast aluminum
Recommended enclosure volume	5 – 20 L (0.18-0.7 ft ³)
Thiele-Small parameters	
Fs	84 Hz
Sd	139 cm2
Re	5.6 Ω
Qms	2.1
Qes	0.64
Qts	0.49
Vas	7.27 dm³ (L)
Cms	0.266 mm/N
Mms	13.4 g
BL	7.92 N/A (T x m)
Le	0.55 mH
Xmax ⁶	5.25 mm
SPECIFICATIONS HF	

SPECIFICATIONS HF

Nominal exit diameter	1.2"/30 mm
Rated impedance	6 Ω
Power handling ¹	20 W
Continuous program power ²	40 W
Sensitivity ³	102 dB
Rated frequency range ⁴	1.2 kHz – 30 kHz
Re	5.3 Ω
Min. XO frequency (24dB/Oct.) ⁷	1.2 kHz
Diaphragm material	high temperature polyimide
Magnet	Neodymium

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Frequency response and impedance of CRS6530 individual drivers in Vb=6.5 L/Fb=65 Hz vented box, free field.

Specifications notes

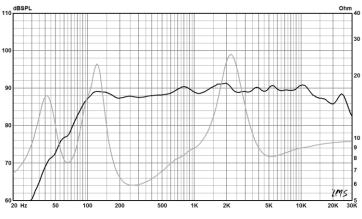
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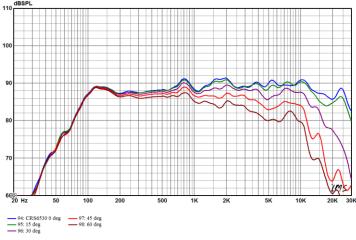
1. As per AES2-1984 Rev.2003.

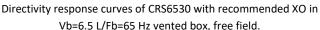
Mounting and mechanical parameters

Overall diameter	187 mm (7.362 in)
Bolt circle diameter	172 mm (6.77 in)
Baffle cut-out diameter	148 mm (5.83 in)
Flange and gasket thickness	6.0 mm (0.24 in)
Overall depth	108 mm (4.25 in)
Net weight	2.1 kg (4.6 lbs.)
Optional Accessories	
Crossover	6CRF5130-XO



Combined frequency response and impedance of CRS6530 with recommended XO in Vb=6.5 L/Fb=65Hz vented box, free field.





4. Specified in accordance with IEC 60268-5 (Ed. 3.1 2007-09). Defines

2. Continuous program power is defined at 3dB higher than AES power and reflects power handling capacity for typical music and cinema

3. Driver mounted in specified test box, measured at 1m, at 2.83V in simulated free field conditions as per AES 2-2012 and IEC 60268-5 (Ed.3.1 2007-09). Sensitivity is calculated based on SPL frequency

response averaged in reference octave bands within 300Hz-1500Hz

band for LF and 1.2 kHz – 4 kHz band for HF as per IEC 60268-5 and

scaled, when necessary, to 1W/1m conditions based on driver rated

recommended operating frequency band. A larger enclosure than the one used for this data sheet measurements may be required for maximum LF extension. Higher LF cut off is possible if higher max SPL of program reproduction is required.

Coverage angle is specified for coaxial driver with optional XO. Defined at -6dB, averaged on octave band points in 500-10000Hz range.
Xmax is defined as Xmax= (Hvc-Hgap)/2+ Hgap/4 and based on actual BL linearity data measured for each driver by laser based analyser with 82% BL reduction limit from normalized maximum at voice coil rest position. Hvc – voice coil height, Hgap – active magnetic gap height.
Refers to XO frequency of dividing network, either passive or active. Actual acoustic XO point between drivers may greatly differ depending on design.

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