

## Woofer

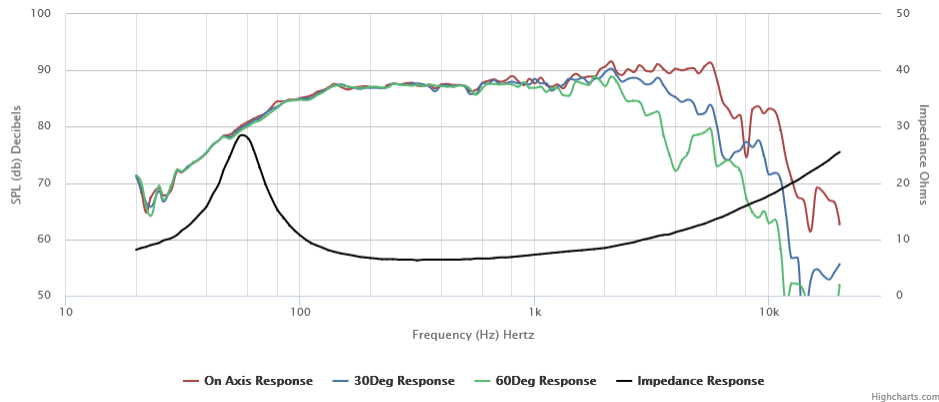
This 5.25 inch 8 ohm driver is a member of the high performance HDS family. A powerful ferrite magnet system is coupled to a finite element analysis designed suspension system, containing both a linear spider design and a rubber surround. The motor contains an aluminium shorting ring, which reduces coil inductance, thus providing both extended frequency response performance and reduced distortion. The long-throw voice coil ensures linear high excursion performance, needed for signal clarity. The cone necks are vented so as to reduce air compression effects under high excursion conditions. The cast aluminium basket offers structural rigidity, heat sinking capacity for the motor, and additional air venting under the spider so as to again reduce air compression effects. The cone in this model is damped black polypropylene, offering a unique visual and acoustic experience.



HDS-P830860

SPECIFICATIONS								
DC Resistance	Revc	Ω	5.9	±5.0%	Moving Mass	Mms	g	9
Minimum Impedance	Zmin	Ω	6.35	±7.5%	Suspension Compliance	Cms	um/N	740.5
Voice Coil Inductance	Le	mH	0.27	-	Effective Cone Diameter	D	cm	10.7
Resonant Frequency	fs	Hz	61.6	15%	Effective Piston Area	Sd	cm <sup>2</sup>	89.9
Mechanical Q Factor	Qms	-	2.21	-	Equivalent Volume	Vas	L	8.41
Electrical Q Factor	Qes	-	0.59	-	Motor Force Factor	BL	T•m	5.9
Total Q Factor	Qts	-	0.47	-	Motor Efficiency Factor	β	(T•m <sup>2</sup> )/Ω	5.9
Ratio	fs/Qts	-	131.9	-	Voice Coil Former Material	VCfm	-	ASV
Half Space Sensitivity	dB@2.83V/1m	dB	87.5	±1.01	Voice Coil Inner Diameter	VCd	mm	25.73
Sensitivity	1W/1m	dB	86.5	±1.01	Gap Height	Gh	mm	6
Rated Noise Power (IEC 2685 18.1)	P	W	50	-	Maximum Linear Excursion	Xmax	mm	3.5
Test Spectrum Bandwidth	1300 Hz - 20k Hz	12 dB/Oct	60Hz - 5kHz	-	Ferrofluid Type	FF	-	-
Energy Bandwidth Product	EBP	(1/Qes)•fs	-	-	Transducer Size	-	-	5.25in
					Transducer Mass	-	Kg	1.06

### FREQUENCY & IMPEDANCE RESPONSE



### MECHANICAL 2D DRAWING

