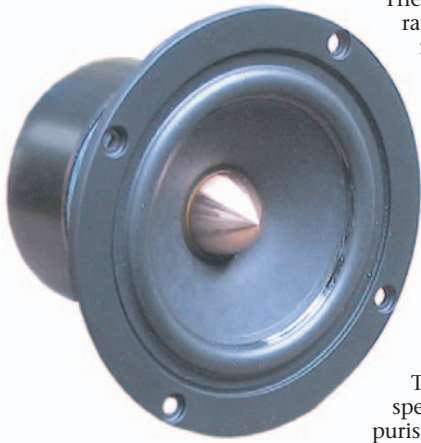


# CREATIVE SOUND SOLUTIONS FR125S FULL RANGE



The FR125S is Creative Sound Solutions 4.5" full range loudspeaker. It is a shielded driver featuring a curvilinear paper cone, rubber surround, & copper phase plug suitable for Hi-Fi & Home Theatre. The motor is based on the patent-pending XBL<sup>2</sup>™ motor topology under license from Adire Audio, Lynnwood Washington.

The flatter BL, lower distortion, low moving mass, & significant excursion provided by the XBL<sup>2</sup>™ motor, permit this speaker to perform very cleanly with a wide frequency response as well as almost unbelievable bass output.

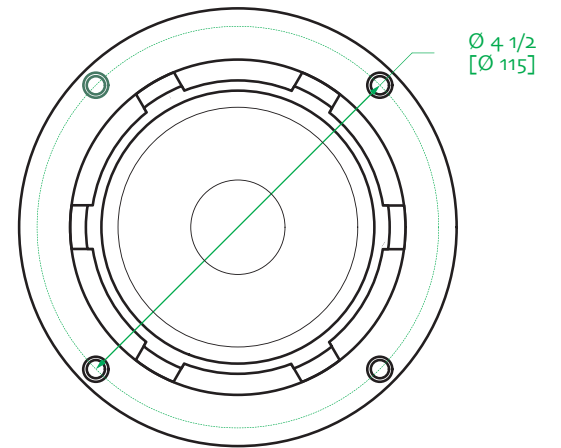
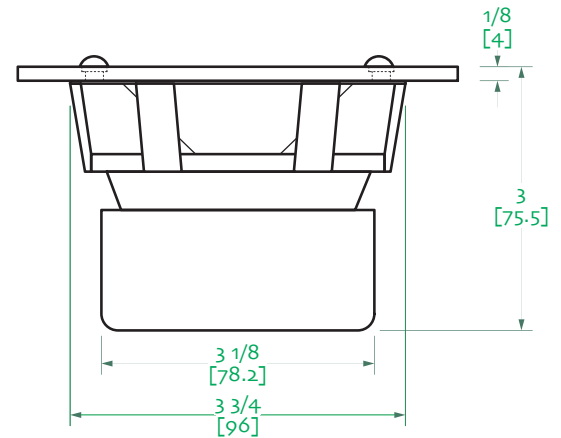
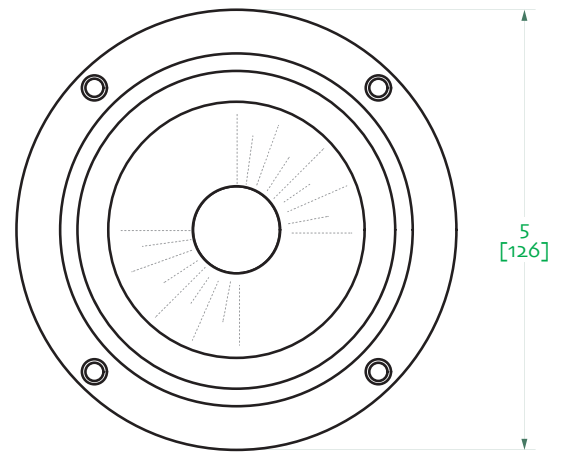
The FR125S is the world's first full range speaker using XBL<sup>2</sup>™ motor topology for purists who want no crossover in the way of their music satisfaction.

The FR125S has superb midrange clarity & extended, low distortion bass. On a standard IEC baffle in a 200 litre enclosure the on-axis response is ± 3 dB from 65 Hz to 20 kHz. The FR125S is a superb full range driver priced to provide extraordinary value.

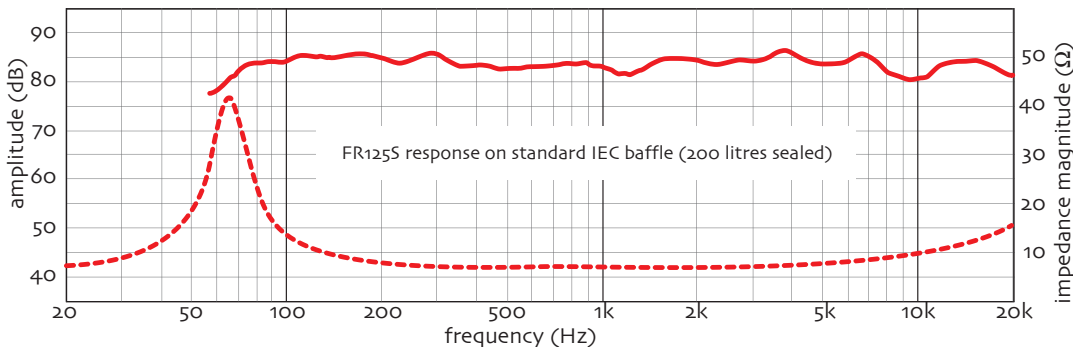
The DIY community has embraced these drivers & a growing number of enclosures have been published – sealed, bass reflex, ML-TL, ML-Voigt, open-baffle, & even horn designs. Visit [www.creativesound.ca](http://www.creativesound.ca) for links to these designs and a number of discussions on the real-world experiences of those that have already adopted these drivers.

A growing number of small OEM finished speaker suppliers have made this driver the heart of their speaker systems & an international distribution network is developing.

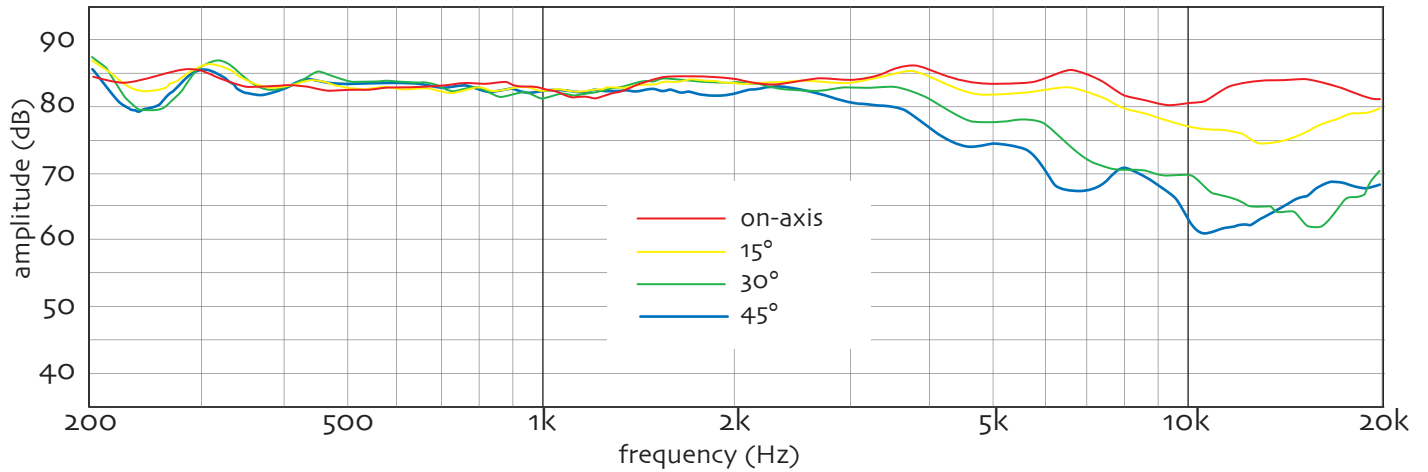
XBL<sup>2</sup>™ is a trademark of Adire Audio



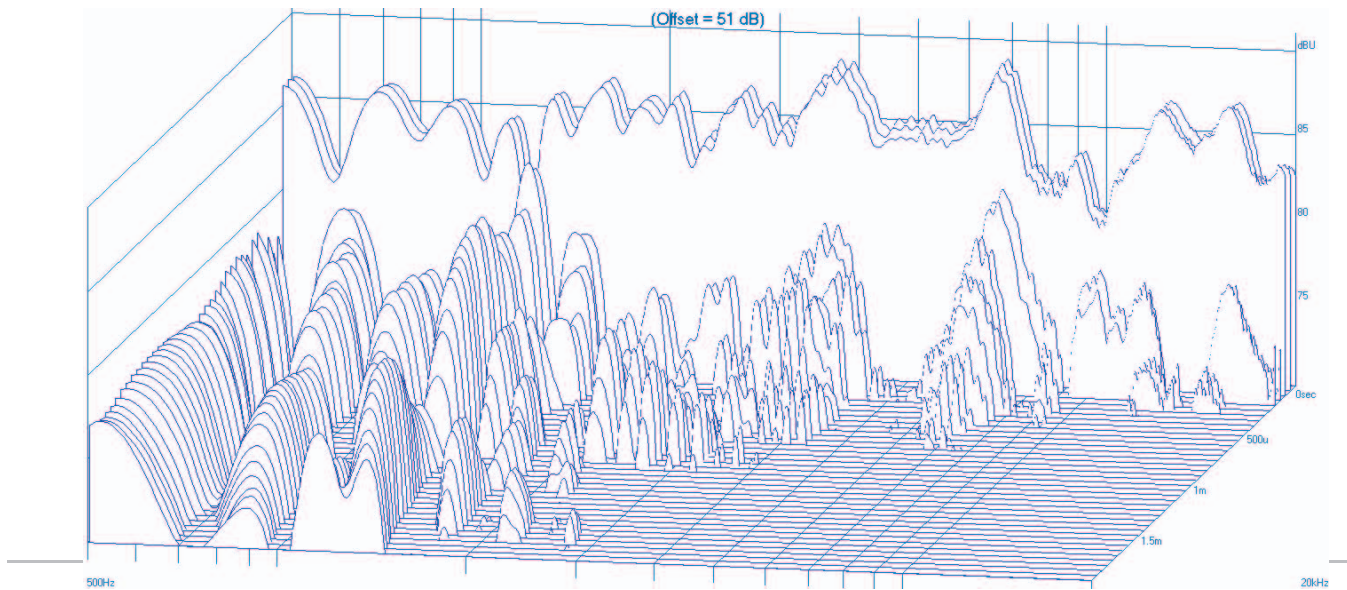
CSS FR125S Thiele/Small Parameters			
$F_s$ (Hz)	67.4	$X_{max}$ (one way)	6mm
$Q_{es}$	0.68	$S_d$ (cm <sup>2</sup> )	57
$Q_{ms}$	3.10	$L_e$	0.39
$Q_{ts}$	0.56	BL NA	4.47
$V_{as}$ (litres)	5.58	$M_{ms}$ (g)	4.6
$R_e$ (Ω)	7.0	SPL (dB@1W 1m)	85.9



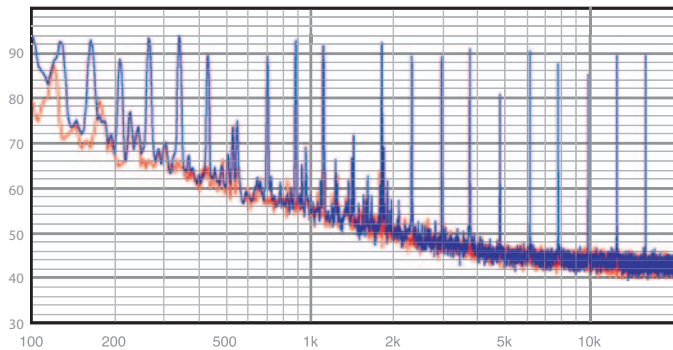
# CREATIVE SOUND SOLUTIONS FR125S MEASUREMENT DATA



Frequency Response



Waterfall



## Spectral contamination plot

At a nominal 94 dB SPL. 20 discrete frequencies are fed to the driver – the spikes in the plot. Below the spikes is all the spectral contamination. THD, IMD, buzzes, rums, etc. 10 dB/division. It is EXTREMELY clean – there's a good 40+ dB between the stimuli and the contamination at all frequencies above 150 Hz.



creative sound solutions

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