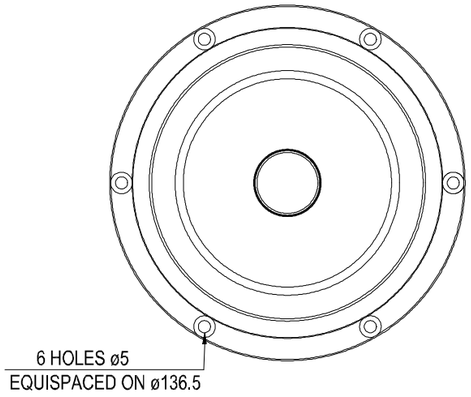
WOOFER

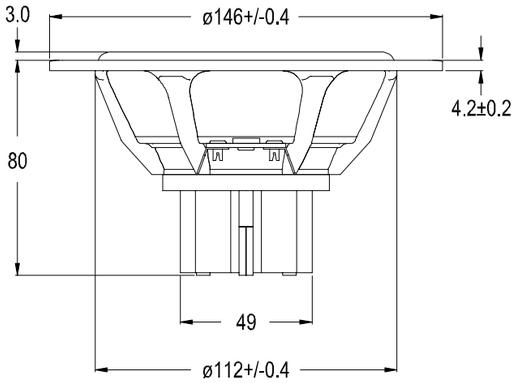
E0037

W15CH001

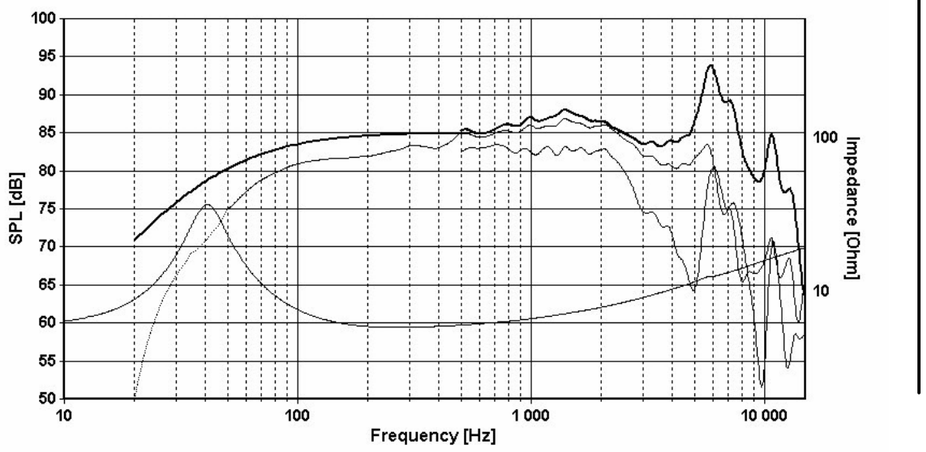
NOMINAL IMPEDANCE	8	Ohms	VOICE COIL RESISTANCE	5.5	Ohms
RECOMMENDED FREQUENCY RANGE	50-3000	Hz	VOICE COIL INDUCTANCE (EQUIVALENT)	0.46	mH
SHORT TERM MAXIMUM POWER *	200	W	FORCE FACTOR	5.1	N/A
LONG TERM MAXIMUM POWER*	70	W	FREE AIR RESONANCE	41	Hz
CHARACTERISTIC SENSITIVITY (1W, 1m)	85	dB SPL	MOVING MASS	9.25	g
			AIR LOAD MASS IN IEC BAFFLE	0.38	g
VOICE COIL DIAMETER	26	mm	SUSPENSION COMPLIANCE	1.6	mm/N
VOICE COIL HEIGHT	14	mm	SUSPENSION MECHANICAL RESISTANCE	0.83	Ns/m
AIR GAP HEIGHT	6.0	mm	EFFECTIVE PISTON AREA	75	sq.cm
LINEAR COIL TRAVEL (p-p)	8.0	mm			
MAXIMUM COIL TRAVEL (p-p)	14	mm	VAS	12	Litres
MAGNETIC GAP FLUX DENSITY	1.0	T	QMS	3.00	
MAGNET WEIGHT	0.06	Kg	QES	0.52	
TOTAL WEIGHT	0.80	Kg	QTS	0.45	

* IEC 268-5

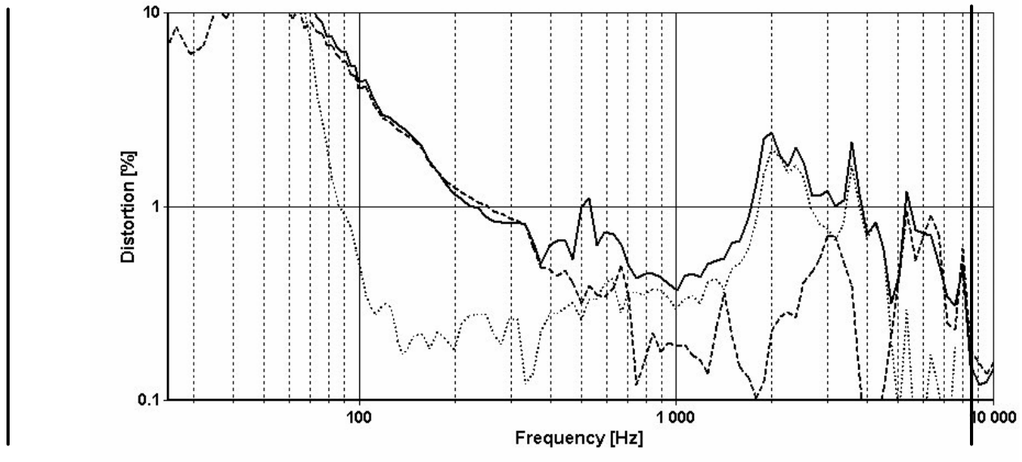




The frequency responses below show measured free field sound pressure in 0, 30, and 60 degrees angle using a closed box of 7 l net. volume. Input 2.83 Volts RMS, microphone distance 0.5m, normalized to 1m.
The solid line below 500 Hz is a calculated response for an infinite baffle based on the parameters given for this specific driver. The impedance is measured in free air without baffle.



Distortion on axis in % between 25 and 5 000 Hz at 96dB SPL 1m



The W15CH001 is a 15cm (5") cone driver developed for use as a high fidelity Woofer or Woofer/Midrange unit. The extremely stiff, yet light cone and the acoustically transparent basket give tremendous bass precision and midrange detail.

SPECIAL FEATURES:

Precision cast and surface treated magnesium cone coupled to a natural rubber surround showing no sign of midrange (edge) resonances.

Patented Hexadym magnet system of acoustically transparent design to avoid cavity resonances and air flow noise. The magnet system based on 6 small, radially magnetized Neodymium blocks is compact to reduce the reflexion of sound energy to a minimum.

Heavy copper rings mounted above and below the T-shaped pole piece, to reduce non linear and modulation distortion and to increase overload margin.

A solid copper phase plug enhances the performance of the copper rings and improves heat conduction away from the pole piece.

Gold plated terminals mounted on a stiff glass fibre reinforced plate to reduce contact resistance and improve reliability.

Extremely stiff and stable injection moulded metal basket to keep the critical components in perfect alignment. Large windows in the basket both above and below the spider to reduce sound reflexion, air flow noise and cavity resonance to a minimum.