



ADVANCED LOUDSPEAKERS

DIPOLE 140-15D

DIPOLE TRUE RIBBON DRIVER

BACK TO THE ROOTS...140-15D GOES OPEN BACK, AND THEN SOME! KEEPING ALL THE TECHNOLOGICAL (READ: AUDIBLE) ADVANTAGES, NOW IT BECAME THE THINNEST DIPOLE TRUE RIBBON IN THE INDUSTRY. THIS IS AN ESSENTIAL FEATURE AS THERE AREN'T ANY DEEP SLOTS OR SHORT HORNS CREATED BY BULKY MAGNETS IN THE VICINITY OF THE RIBBON ELEMENT, TO INCREASE IT'S AIR LOADING MASS AND COMPROMISE LINEARITY, HENCE, ACCELERATION AND LINEARITY ARE PRESERVED. TOTALLY SYMMETRICAL FRONT AND BACK OPENINGS PROVIDE IDENTICAL RIBBON LOADING, IDENTICAL RESPONSE AND IDENTICAL DISPERSION PATTERNS FRONT AND BACK. THERE LIES THE GREATEST ADVANTAGE, UNHEARD OF IN ANY DIPOLE SPEAKER DESIGN TO DATE: ONCE THE SYMMETRY HAS BEEN ACHIEVED BY IT'S PHYSICAL DESIGN, USING RAAL'S PROPRIETARY FOAM DEFLECTOR PADS, YOU CAN ADJUST FOR DIFFERENT AND INDEPENDENT DISPERSION PATTERNS FRONT AND BACK. THIS WILL ALLOW YOU TO CREATE AMAZING DEPTH IF STEREO IMAGE, DEPENDING ON WHICH PATTERN IN THE FRONT AND WHICH PATTERN IN THE BACK IS BEST FOR YOUR LISTENING ROOM ACOUSTICS. FOR THE FIRST TIME, YOU DON'T NEED ELECTRONICS TO ADJUST FRONT AND BACK LEVELS. IT'S ALL VERY EASY AND VERY NATURAL NOW.

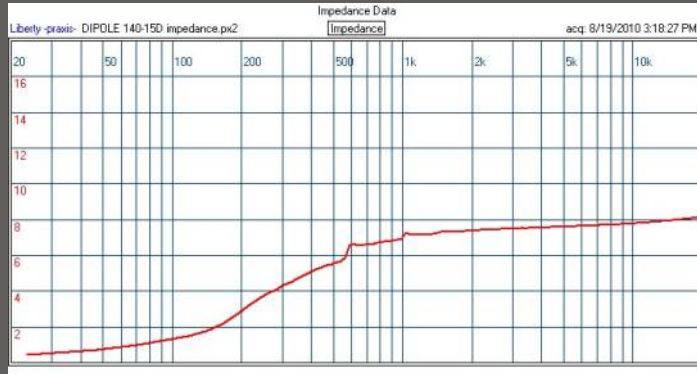
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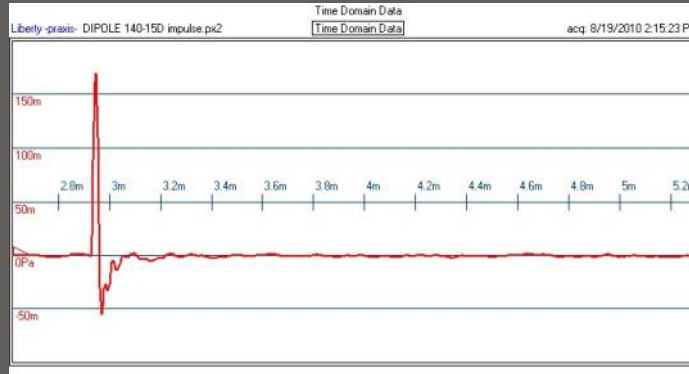
RAAL

DIPOLE 140-15D

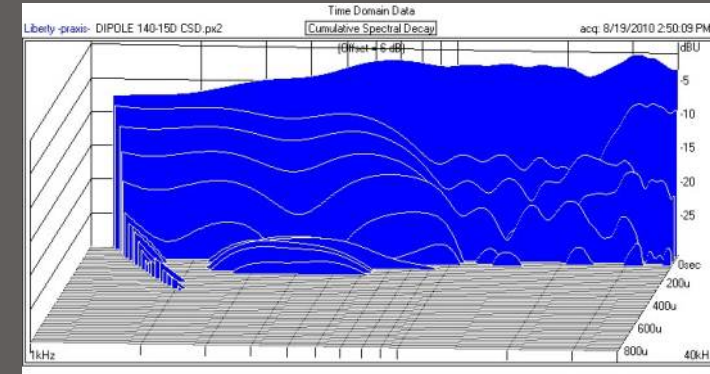
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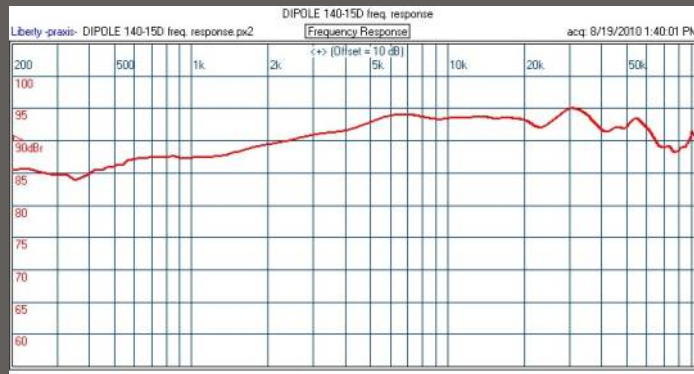
IMPEDANCE



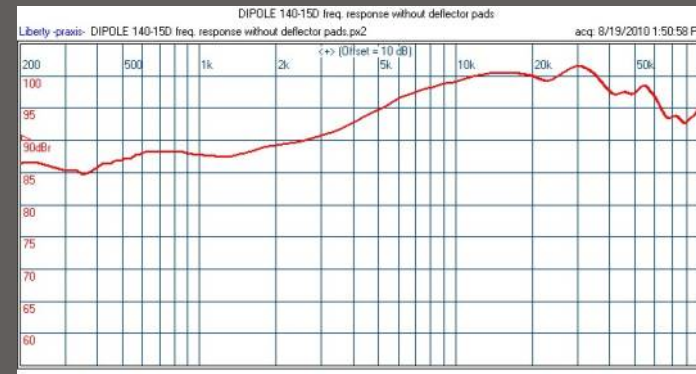
IMPULSE RESPONSE



CUMULATIVE SPECTRAL DECAY



FREQUENCY RESPONSE ON AXIS



FREQUENCY RESPONSE WITHOUT DEFLECTOR PADS

SPECIFICATIONS:

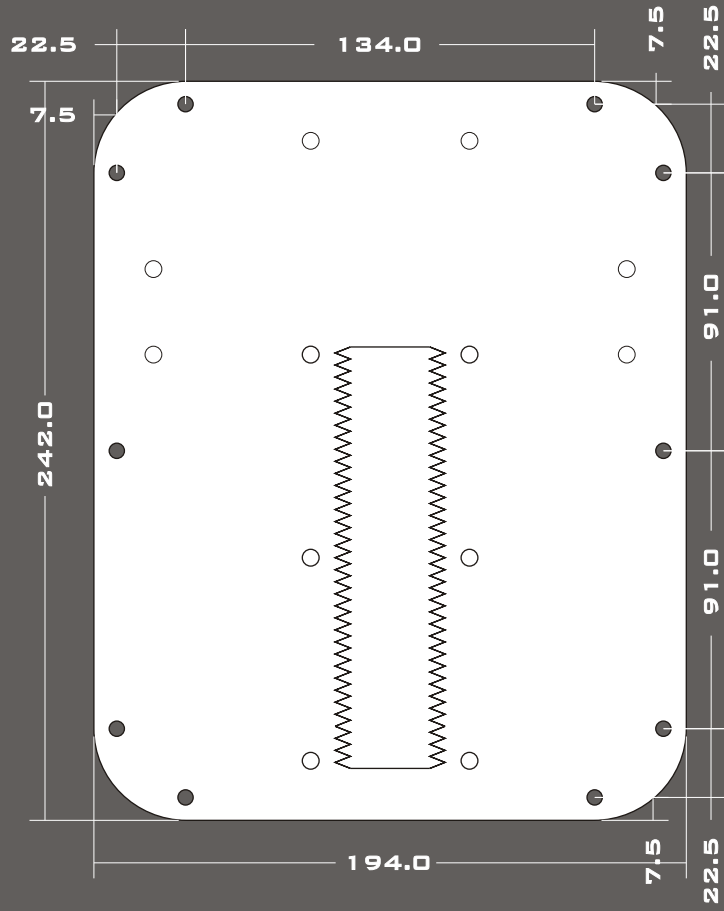
RIBBON MATERIAL	ALUMINIUM
RIBBON DIMENSIONS	140 x 15 x 0.005 MM
RIBBON MASS	0.027 G
RIBBON AREA	21 CM SQ.
GAP INDUCTION	0.5 T
FREQ. RESPONSE	2KHZ ~ 60KHZ
SENSITIVITY	93dB/1W/1M
IMPEDANCE	8 OHM
TRANSFORMER PRIMARY INDUCTANCE	2 MH
PROGRAM POWER HANDLING @ 2.5K L-R 4TH ORDER	150 W

RAAL

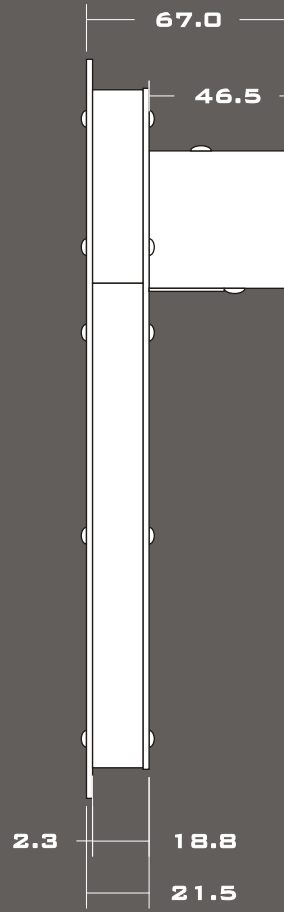
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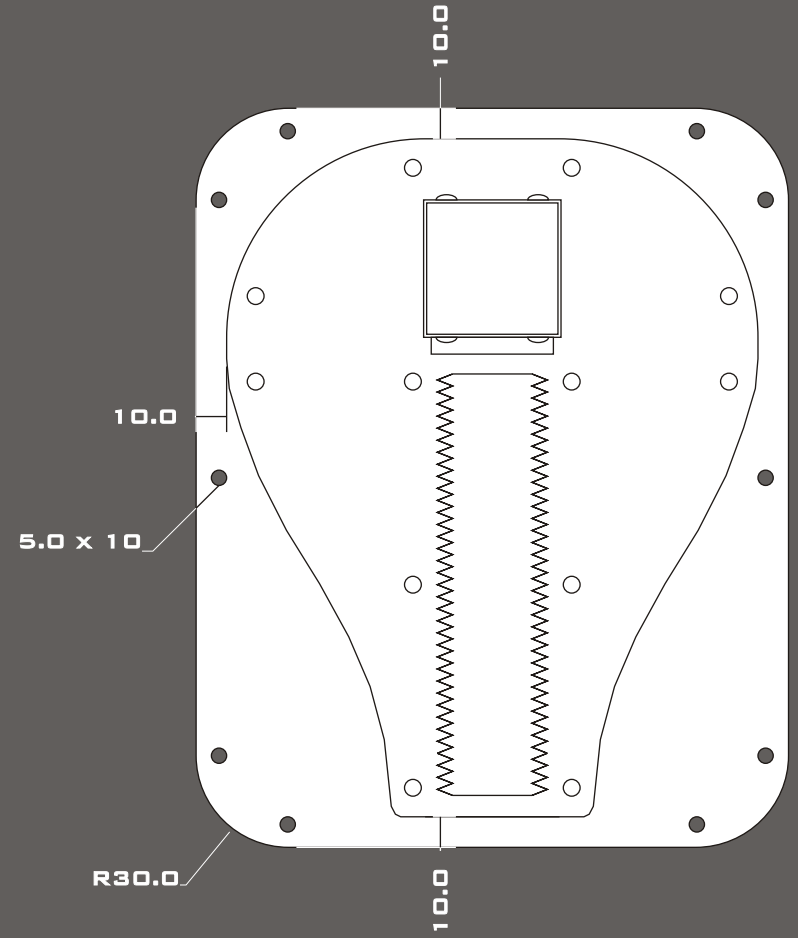
MECHANICAL DRAWING



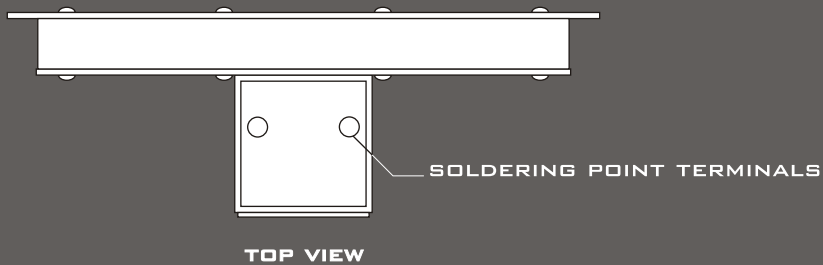
FRONT VIEW



SIDE VIEW



BACK VIEW



TOP VIEW

WEIGHT: ~4.2 KG

ALL DIM. TOLERANCE: 0.3 MM