

ADVANCED LOUDSPEAKERS

THE LAZY RIBBON

COMPREMAG[®]

HIGH-EFFICIENCY TRUE RIBBON HIGH FREQUENCY DRIVER

FEATURING YET ANOTHER OF RAAL'S IMPROVEMENTS TO THE FINE ART OF HIGH-END AUDIO TRANSDUCER DESIGN, THE NOVEL MAGNETIC CIRCUIT THAT BOOSTS GAP FLUX AND CANCELS DISTORTION NAMED *COMPREMAG*[®], THEN ALL OF THE RAAL USUALS: HOMOGENOUS GAP FLUX, FLAT FOIL EMBOSSED WITH STANDING-WAVE BREAKING PATTERN, SYMMETRICAL SIGNAL LEADING INDUCTANCE CANCELLING LOOPS, FIVE TRANSFORMER TAPS FOR SENSITIVITY ADJUSTMENT, AMORPHOUS METAL OR FERRITE TRANSFORMER CORES, COPPER OR SILTECH'S SILVER-GOLD3% + KAPTON WIRE IN PRIMARY WINDINGS, RIBBON REPLACEMENT KITS, COPPER SOLDERING POSTS... THIS UNIQUE RIBBON WILL OUTPERFORM ANY COMPRESSION DRIVER HORN TWEETER IN MICRO AND MACRO-DYNAMICS RENDERING, NOT TO MENTION DETAIL, SPEED, LOW-LEVEL SIGNAL INFORMATION AND CLARITY.

IT IS PRIMARILY DESIGNED FOR AUGMENTING HIGH-EFFICIENCY "HORN" SYSTEMS, SERVING AS A TWEETER OR SUPER-TWEETER, ALTHOUGH ANY HIGH-EFFICIENCY, HIGH-SPL, HIGH POWER DEMANDS WILL BE ENTHUSIASTICALLY SERVED BY IT.

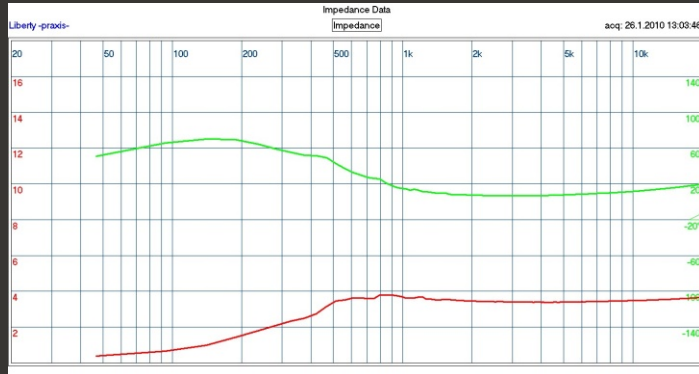
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RAAL

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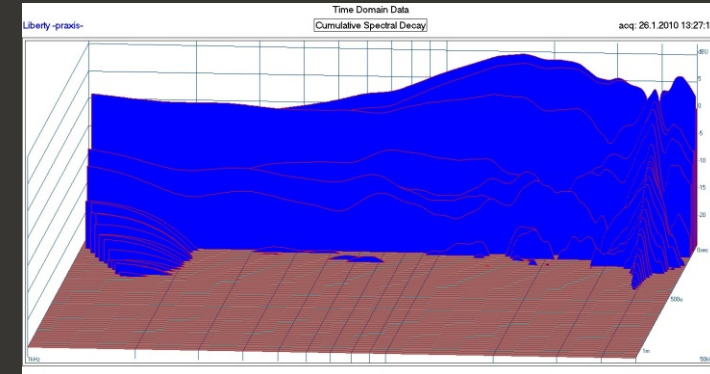
HIGH EFFICIENCY TRUE RIBBON HIGH FR. DRIVER



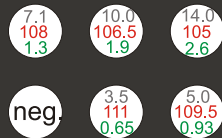
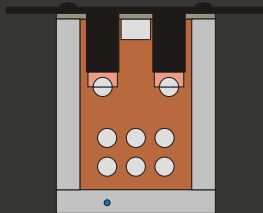
IMPEDANCE AT FIRST TRANSFORMER TAP



IMPULSE RESPONSE

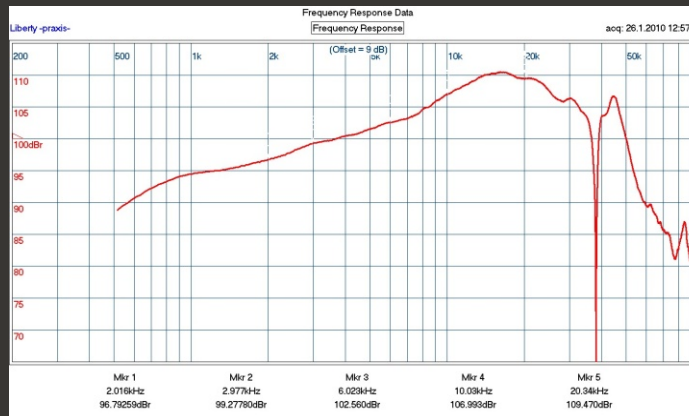


CUMULATIVE SPECTRAL DECAY

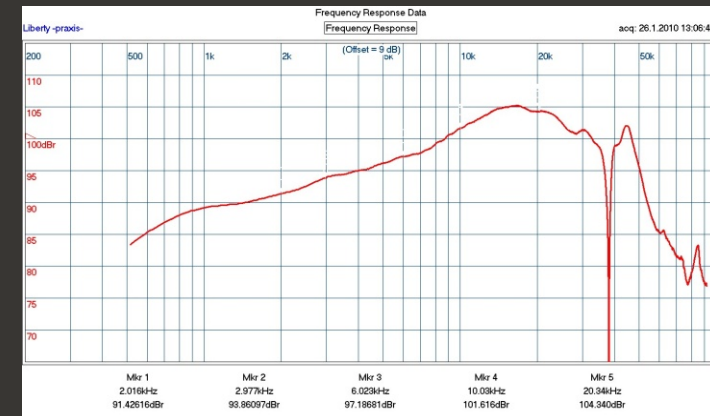


impedance in Ohms
 peak sensitivity in dB/1m/2.83V
 primary inductance of transformer in mH

SOLDERING POINTS TOP VIEW



FREQUENCY RESPONSE AT FIRST TAP (3.5 OHMS)



FREQUENCY RESPONSE AT FIFTH TAP (14 OHMS)

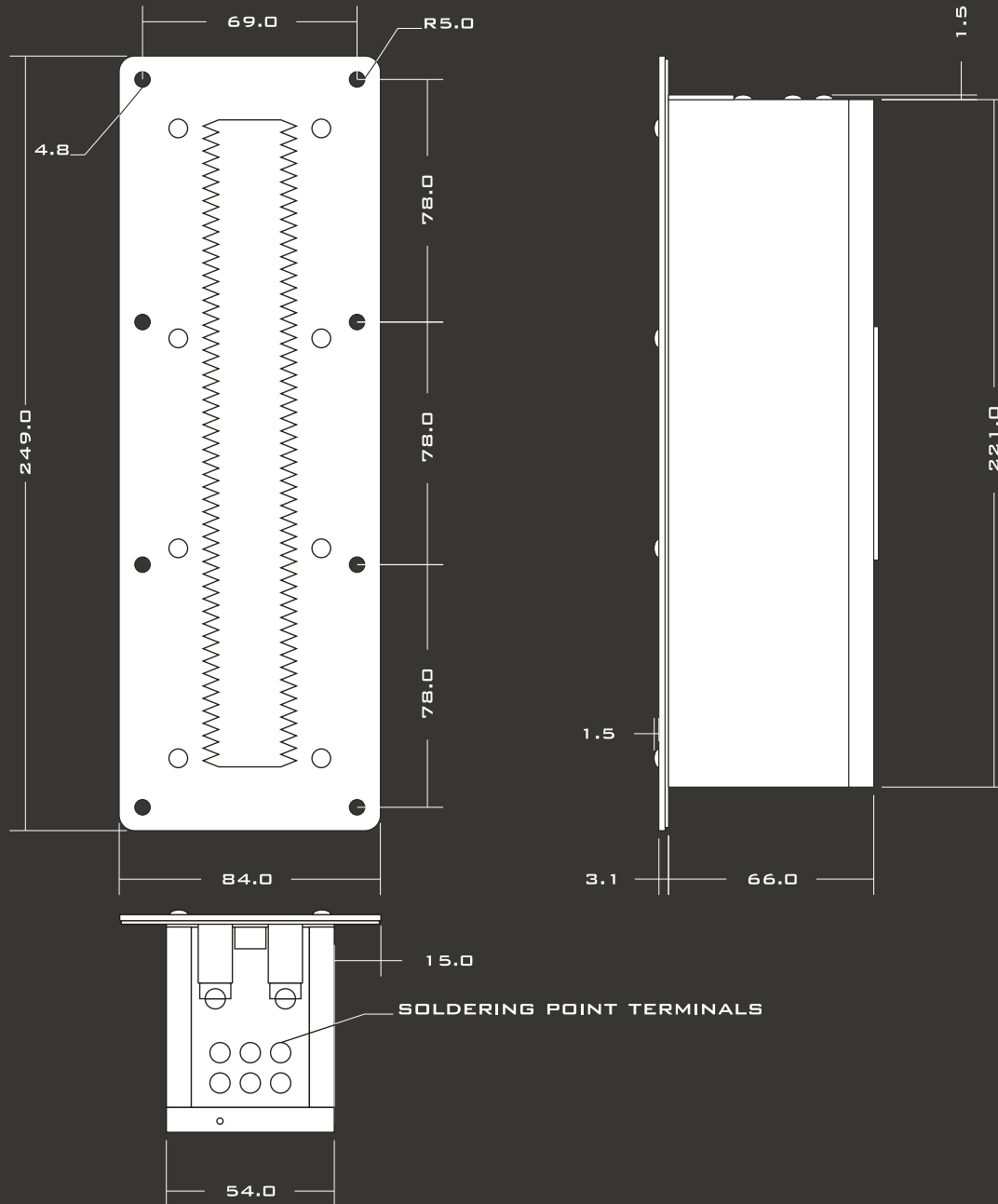
SPECIFICATIONS:

| | |
|---|---------------------------------------|
| RIBBON MATERIAL | ALUMINIUM |
| RIBBON DIMENSIONS | 210 X 9.5 X 0.05 MM |
| RIBBON MASS | 0.027 G |
| RIBBON AREA | 20 CM SQ. |
| GAP INDUCTION | 0.71 T |
| FREQ. RESPONSE | 3KHZ ~ 50KHZ |
| PEAK SENSITIVITY | 105-106.5-108-109.5-111 DB SELECTABLE |
| IMPEDANCE | 3.5 - 5 - 7 - 10 - 14 OHM SELECTABLE |
| TRANSFORMER PRIMARY INDUCTANCE | 0.65-0.93-1.3-1.9-2.6 MH |
| PROGRAM POWER HANDLING @ 3K L-R 4TH ORDER | 200 W |
| PROGRAM POWER HANDLING @ 10K 1ST ORDER | 30 W |

RAAL

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MECHANICAL DRAWING



BAFFLE HOLE: 225 x 56 MM

WEIGHT: ~3.8 KG

ALL DIM. TOLERANCE: 0.3 MM