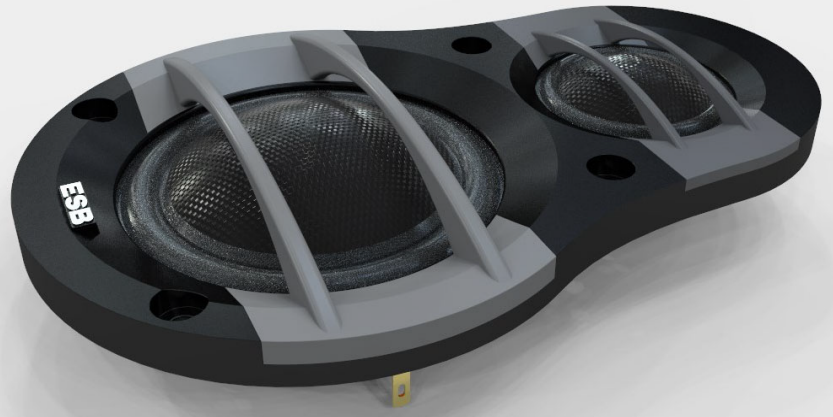


- 28 mm aluminum voice coil (tweeter)
- 25 mm aluminum voice coil (midrange)
- High grade neodymium magnet
- Tweeter's carbon fiber dome
- Midrange's carbon fiber dome
- CNC Avional faceplate
- Acoustic resistance Qts control
- Computer optimized design
- Motor metal parts CNC machined
- Under dome dB Cloth® damping material
- Removable and paintable dome protection

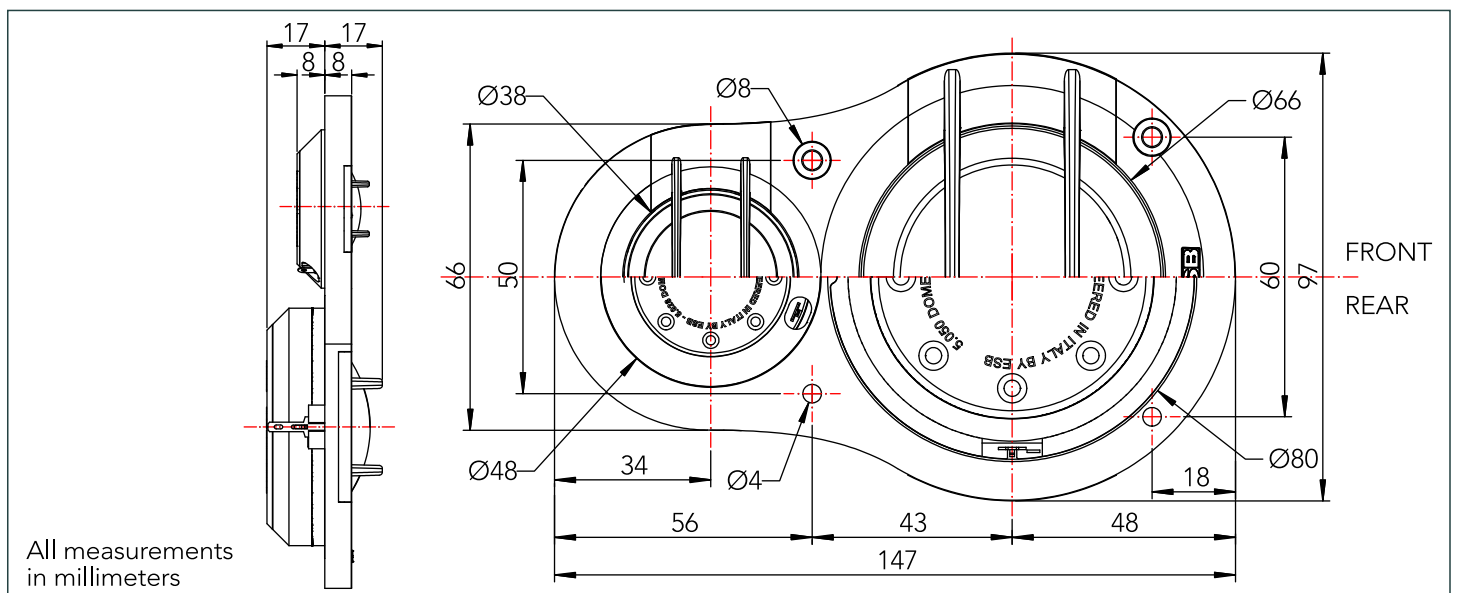


This special and exclusive component driver is a concept born way back in 70's, its aim is to concentrate medium and tweeter emissions in a single virtual point. This minimizes phase delays and irregularities at the crossover point.

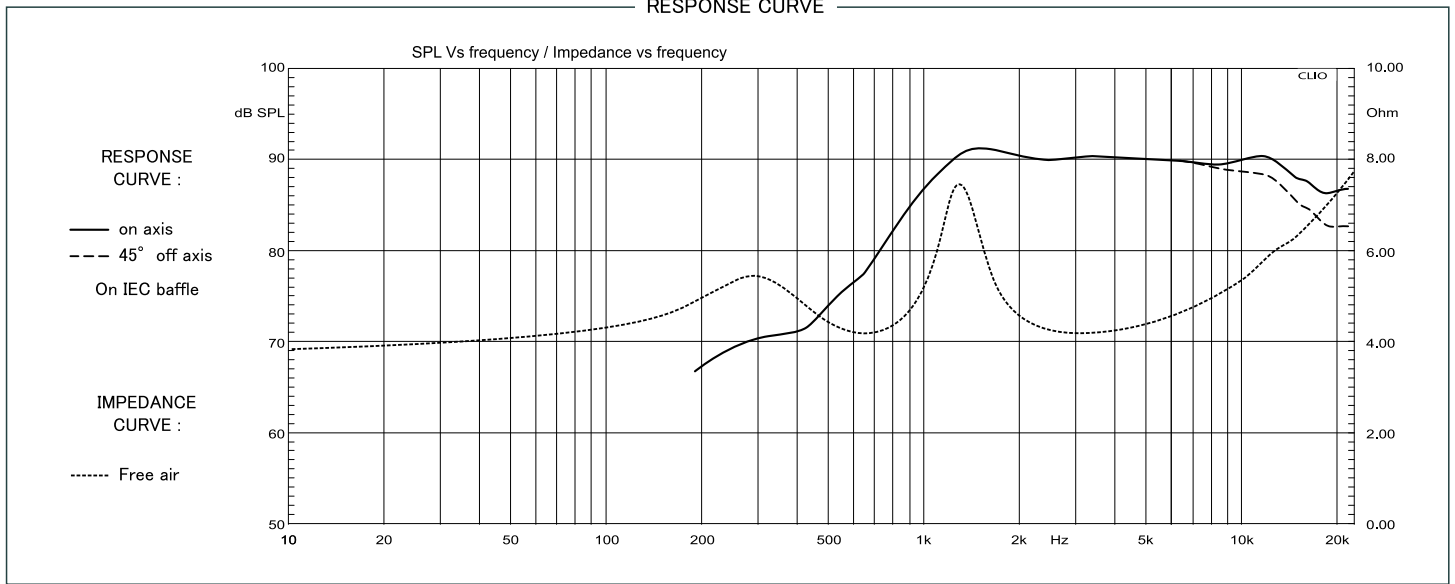
All the parts that make up this component have been made with the CNC process, this is very expensive and need long time but ensures perfect geometry and impeccable aesthetics. Made with Avional aluminum with deep oxidization. Both components use a very large neodymium motor magnet optimized with computer simulations (FEA) to obtain a great efficiency and improve linearity along all voice coil excursion. Neodymium magnet is an high grade type for eliminate magnetic losses at elevate temperature and concentrate more force in less space.

The tweeter dome made in high modul carbon fiber with integrated soft cloth suspension offers superb heat resistance, low weight and excellent self damping, with a natural and linear response, and a very low frequency extension. The midrange also in carbon fiber, integrates a suspension in synthetic foam, ensures a perfect balance between rigidity weight and self damping. The carbon fiber guarantee an extremely natural and linear reproduction, with an excellent extension at the ends of the band. Great attention was given to the ventilation of the two components, through a single axial ventilation on the tweeter and multiple on the midrange. Residual resonance are killed by the under dome damping material named dB Cloth®. This extends the frequency response to the lower limits and reduces harmonic distortion. To improve control and damping an acoustic resistance has been adopted on both components.

Combined together the two component are able to reproduce with perfect linearity all spectrum from 500Hz to 25KHz. Small permanent magnets fix the tweeter and midrange grill in correct position and these are easy to remove for customize.

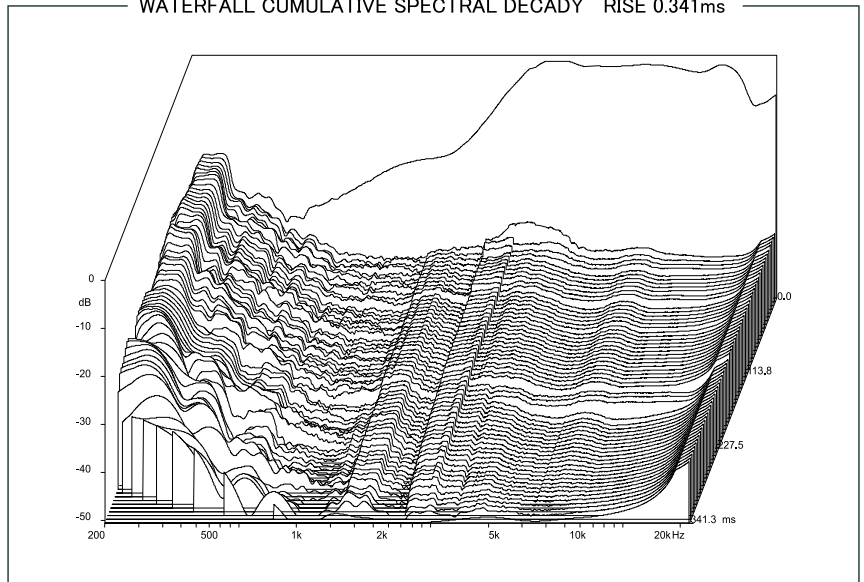


### RESPONSE CURVE

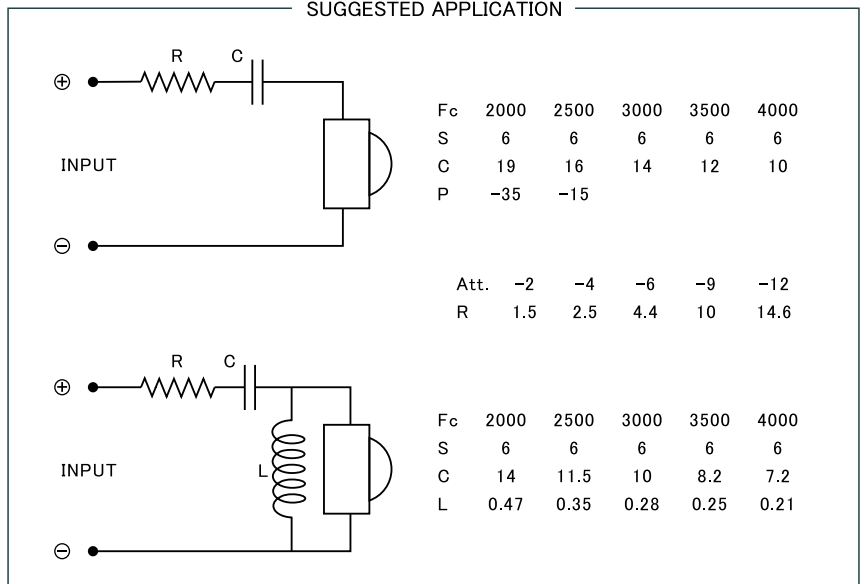


SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
<b>GENERAL DATA</b>			
Overall Dimension	D x h	73 x 18	mm
Nominal Power Handling (AES)*	P	110	W
Transient Power *	Pp	220	W
Sensitivity 1W/1m	SPL	91	dB SPL
Frequency Response		900 – 25.000	Hz
Net Weight		86	g
Dome Material		Carbon fibres and epoxy resin matrix	
*Nominal and Transient power @ High Pass 2KHz-12db/Oct			
<b>ELECTRICAL DATA</b>			
Nominal Impedance	Z	4	Ω
DC Resistance	Re	3.5	Ω
Voice coil Inductance	Lbm	0.043	μH
<b>VOICE COIL AND MAGNET PARAMETERS</b>			
Voice Coil Diameter	Dia	28	mm
Voice coil Height	h	2.5	mm
Number of layers	n	2	
Voice Coil Former		Aluminum	
Magnet System		Neodymium Vented	
Magnetic Gap Height	HE	3	mm
Max Linear excursion	Xmax	±0.5	mm
Flux density	B	1.3	T
BL Product	BxL	4.35	Na
Magnet dimension	Ø x h	27 x 6	mm
Magnet weight	m	25.7	g
<b>T&amp;S PARAMETERS</b>			
Mechanical Q Factor	Qms	1.95	
Electrical Q Factor	Qes	1.73	
Total Q Factor	Qts	0.91	
Suspension Compliance	Cms	0.32	N/m
Mechanical Resistance	Rms	1.7	Ω
Moving Mass	mms	0.71	g
Eq. Comp. Air Load	VAS	0.011	l
Resonance Frequency	Fs	710	Hz
Effective Piston Area	SD	8.49	cm <sup>2</sup>
<b>CROSSOVER VALUE</b>			
Fc	Crossover frequency	Hz	
L	Inductor	mH	
C	Capacitor	μF	
R	Resistance	Ω	
P	Reduction from Nominal Power	%	
S	Crossover Slope	dB/Oct	

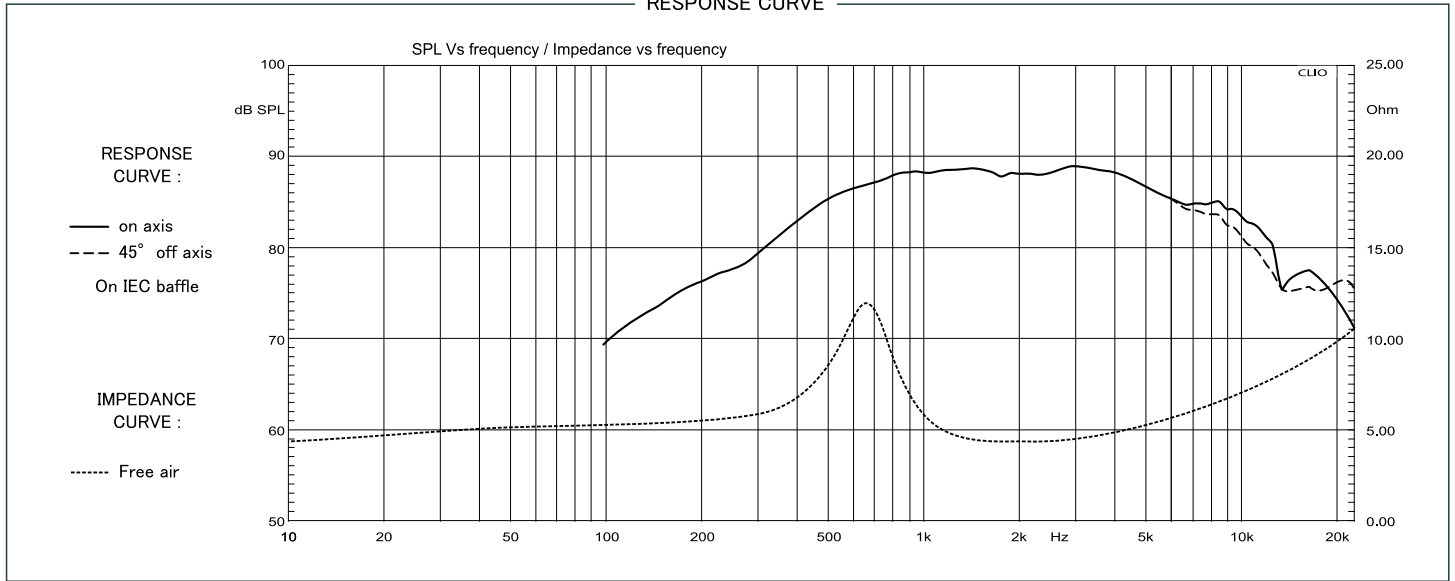
### WATERFALL CUMULATIVE SPECTRAL DECADY RISE 0.341ms



### SUGGESTED APPLICATION

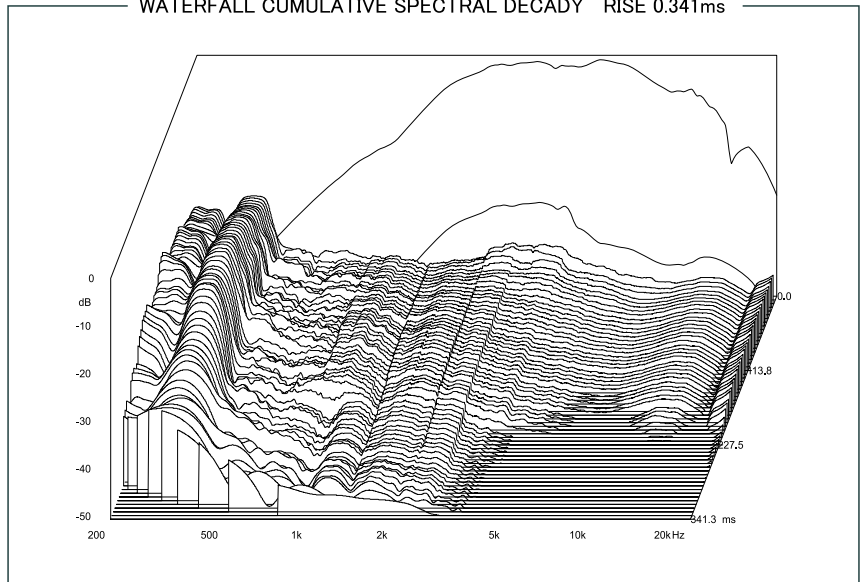


### RESPONSE CURVE



SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
<b>GENERAL DATA</b>			
Overall Dimension	D x h	100 x 25	mm
Nominal Power Handling (AES)*	P	120	W
Transient Power *	Pp	240	W
Sensivity 1W/1m	SPL	91	dB SPL
Frequency Response		500 – 6000	Hz
Net Weight		344	g
Dome Material		Carbon fibres and epoxy resin matrix	
*Nominal and Transient power @ High Pass 500Hz-12dB/Oct			
<b>ELECTRICAL DATA</b>			
Nominal Impedance	Z	4	Ω
DC Resistance	Re	3.5	Ω
Voice coil Inductance	Lbm	0.06	μH
<b>VOICE COIL AND MAGNET PARAMETERS</b>			
Voice Coil Diameter	Dia	25	mm
Voice coil Height	h	4.5	mm
Number of layers	n	2	
Voice Coil Former		Aluminum	
Magnet System		Neodymium Vented	
Magnetic Gap Height	HE	3	mm
Max Linear excursion	Xmax	± 4.5	mm
Flux density	B	1.4	T
BL Product	BxL	11.9	Na
Magnet dimension	Ø x h	46 x 6	mm
Magnet weight	m	75	g
<b>T&amp;S PARAMETERS</b>			
Mechanical Q Factor	Qms	2.60	
Electrical Q Factor	Qes	1.009	
Total Q Factor	Qts	0.76	
Suspension Compliance	Cms	0.005	N/m
Mechanical Resistance	Rms	16.99	Ω
Moving Mass	mms	2.3	g
Eq. Comp. Air Load	VAS	0.01	l
Resonance Frequency	Fs	630	Hz
Effective Piston Area	SD	27.32	cm <sup>2</sup>
<b>CROSSOVER VALUE</b>			
Fc	Crossover frequency	Hz	
L	Inductor	mH	
C	Capacitor	μF	
R	Resistance	Ω	
P	Reduction from Nominal Power	%	
S	Crossover Slope	dB/Oct	

### WATERFALL CUMULATIVE SPECTRAL DECAY RISE 0.341ms



### SUGGESTED APPLICATION

INPUT

⊕ C L ⊖

⊕ R ⊖

Fc	450	500	550	600	650	700	750	800	850	900	900
S	6 HP	6 HP	6 HP	6 HP	6 HP	6 HP	6 HP	6 HP	6 HP	6 HP	6 HP
C	49	38	33	24	23	22	21	20	19	18	17
P	-40	-30	-25	-20	-10	-5					
Fc	2000	2500	3000	3500	4000	4500	5000				
S	6 LP	6 LP	6 LP	6 LP	6 LP	6 LP	6 LP				
L	0.3	0.25	0.21	0.2	0.18	0.16	0.15				
Att.	-2	-4	-6	-9	-12						
R	2	4.7	6.8	11.5	20.4						

INPUT

⊕ C1 L2 ⊖

⊕ L1 C2 ⊖

⊕ R ⊖

Fc	450	500	550	600	650	700	750	800	850	900	900
S	12 HP	12 HP	12 HP	12 HP	12 HP	12 HP	12 HP	12 HP	12 HP	12 HP	12 HP
C1	35	27	24	17	15	14	15	16	18	19	21
L1	3.5	3.7	3.5	4	3.9	3.5	2.9	2.3	1.8	1.6	1.1
P	-20										
Fc	2000	2500	3000	3500	4000	4500	5000				
S	12 LP	12 LP	12 LP	12 LP	12 LP	12 LP	12 LP				
L2	0.4	0.36	0.3	0.27	0.25	0.23	0.22				
C2	14	11.5	9	7.5	6.2	5.3	4.5				