3.90

3.5”/90 MM MIDRANGE

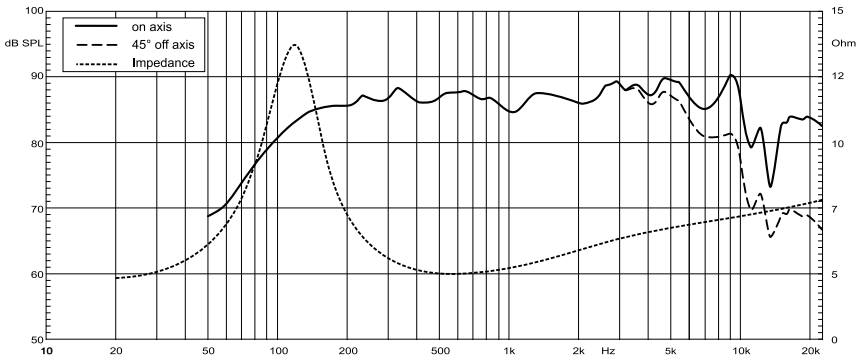
- FEA motor optimized
- 20 mm copper/aluminum voice coil
- High temperature aluminum former
- Large high grade ferrite magnet
- Axial forced coil ventilation
- Fiber reinforced paper cone
- Twin simmetrical wave rubber suspension
- Poly cotton spider
- ABS basket with self damping system
- Balanced symmetrical construction
- Computer optimized design
- Fatigue resistant lead wire, bal. connect.

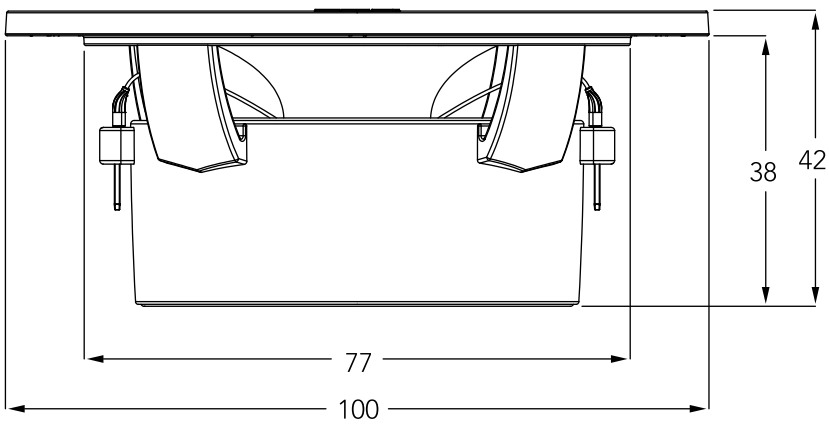
ABS basket reinforced with fiberglass. The baskest have been engineered in order to obtain the maximum in terms of torsional rigidity (bending), but at the same time offer the minimum resistance to the passage of air. Pressed paper cone with waterproof treatment. It is widely recognized that cones made of paper are the best marriage of lightness, stiffness and the ability of the cone to dampen any unwanted vibration (read: distortion). Twin simmetrical wave rubber surround. The Perbunan rubber edge is much more stable when the temperature changes than the classic rubber. The 20 mm voice coil uses an aluminum support and a winding with a double layer technology of copper wire with an aluminum core. High grade ferrite magnet, a type of magnet with significantly higher performance than the classic "standard" ones.

SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
GENERAL DATA			
Overall Dimension	D x h	100 X 42	mm
Nominal Power Handling (AES)*	P	60	W
Transient Power *	Pp	120	W
Sensivity 1W/1m	SPL	88.5	dB SPL
Frequency Response	150 – 7000		Hz
Cone Material	Fiber reinforced high strength paper		
*Nominal and Transiet power @ High Pass 150Hz – 12db/Oct			

ELECTRICAL DATA			
Nominal Impedance	Z	4	Ω
DC Resistance	Ω	4.74	Ω
Voice coil Inductance	Lbm	0.138	µH
VOICE COIL AND MAGNET PARAMETERS			
Voice Coil Diameter	Dia	20	mm
Voice coil Height	h	5.75	mm
Magnetic Gap Height	HE	3	mm
Max Linear excursion	Xmax	±1.37	mm
Voice Coil Former	Aluminum		
Number of layers	n	2	
Magnet System	Ferite Y-35		
Efficiency	η°	0.417	%
BL Product	BxL	3.49	Na
Magnet dimension	Ø x Ø x h	60x24x10	mm

T&S PARAMETERS			
Suspension Compilance	Cms	0.707	N/m
Mechanical Q Factor	Qms	1.980	
Electrical Q Factor	Qes	0.711	
Total Q Factor	Qts	0.523	
Moving Mass	mms	2.075	g
Eq. Comp. Air Load	VAS	1.659	l
Resonance Frequency	Fs	123	Hz
Effective Piston Area	SD	40.72	cm^2





All measurements in millimeters