3.25

1"/25 MM SOFT DOME TWEETER

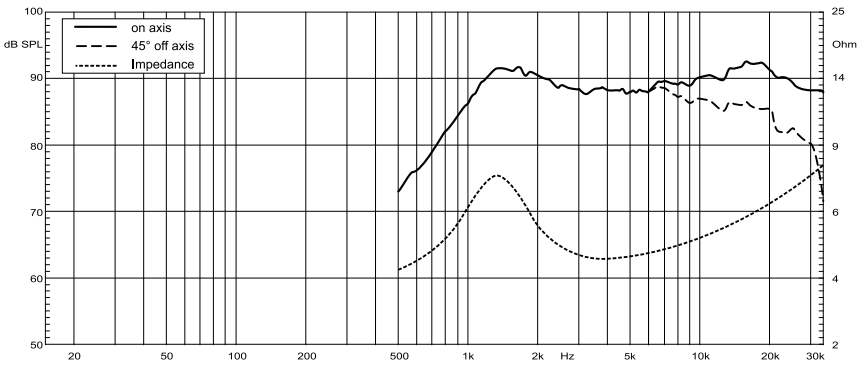
- 25 mm voice coil
- Nominal diameter 32.8 mm
- N42 Neodymium magnet
- Light vented aluminum former
- High module silk dome
- ABS housing with self damping system
- Ferrofluid cooling and damping
- Computer optimized design
- Motor metal parts CNC machined
- Under dome dB Cloth® damping material
- Multi angle dash mounting cup
- Flush or free mounting system

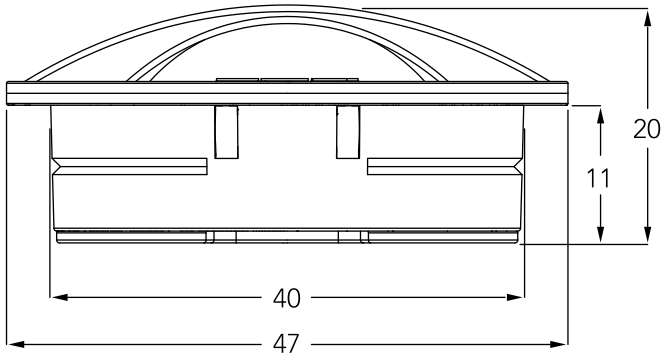
The tweeter has a silk-impregnated thin fabric dome diaphragm for a smooth sound, with an outer suspension covered with a high-loss damping material to eliminate edge vibration and resonance. The dome is of extremely low mass and is much less susceptible to mechanical deformation than other models, yet it provides a smooth, linear and very extended response.
The 25 mm voice coil has aluminum support and very light copper-coated aluminum wire. The coil is ventilated and damped with iron-fluid oil. The special SVS ventilation design provides two benefits: optimal cooling of voice coil and avoiding compressing the air at the back of the dome. Neodymium N42 magnet, a type of magnet with significantly higher performance than the classic "standard" ones, is optimized with computer simulations to get better efficiency and improve linearity.

SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
GENERAL DATA			
Overall Dimension	D x h	47 X 11	mm
Nominal Power Handling (AES)*	P	80	W
Transient Power *	Pp	160	W
Sensivity 1W/1m	SPL	89	dB SPL
Frequency Response	1200 – 25.000		Hz
Dome Material	High module silk		
*Nominal and Transiet power @ High Pass 2.5KHz – 12db/Oct			

ELECTRICAL DATA			
Nominal Impedance	Z	4	Ω
DC Resistance	Ω	3.71	Ω
Voice coil Inductance	Lbm	0.275	µH
VOICE COIL AND MAGNET PARAMETERS			
Voice Coil Diameter	Dia	25.4	mm
Voice coil Height	h	2	mm
Magnetic Gap Height	HE	3.0	mm
Max Linear excursion	Xmax	±0.5	mm
Voice Coil Former	Aluminum		
Number of layers	n	2	
Magnet System	Neodymium N-42H		
Efficiency	η°	0.465	%
BL Product	BxL	2.3	Na
Magnet dimension	Ø x h	24.5x3.6	mm

T&S PARAMETERS			
Suspension Compilance	Cms	0.128	N/m
Mechanical Q Factor	Qms	1.129	
Electrical Q Factor	Qes	1.686	
Total Q Factor	Qts	0.676	
Moving Mass	mms	0.169	g
Eq. Comp. Air Load	VAS	0.011	l
Resonance Frequency	Fs	1300	Hz
Effective Piston Area	SD	6.429	cm^2





All measurements in millimeters