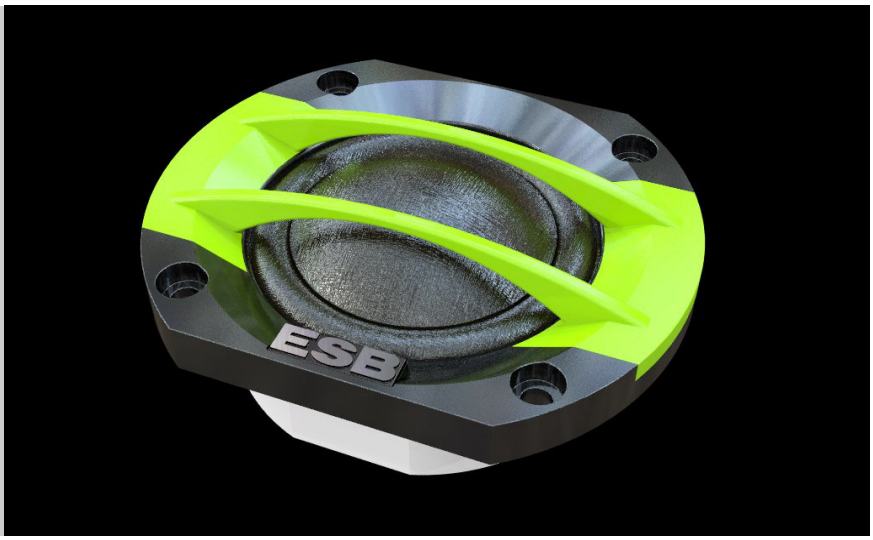
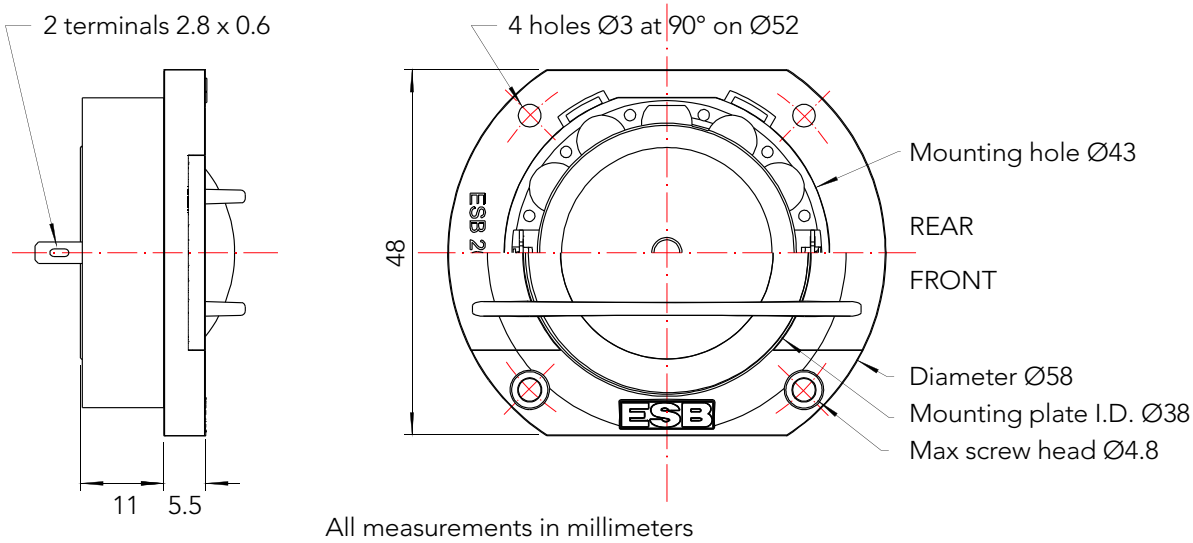
2028

1.1”/28 MM SOFT DOME TWEETER

- 1.1”/28 mm voice coil
- 32.8 mm nominal diameter
- Neodymium magnet
- Torcon® soft dome
- ABS housing with self damping system
- Ferrofluid cooling and damping
- Computer optimized design
- Motor metal part CNC machined
- Under dome dB Cloth® damping material
- Removable faceplate
- Multi-orientation mounting “cup”
- Stealth mounting system adaptor



The tweeter uses a neodymium magnet optimized with computer simulations for get better efficiency and improve linearity.
Neodymium magnet is a high-grade type to eliminate magnetic lose at high temperature.
Torcon® soft dome, an exclusive Polyphenylene Sulfide (PPS) with a high-performance fiber that offers superb heat resistance, low weight and excellent self damping, to give a resonance free frequency response until well audible frequency.
The semi-catenary profile on our diaphragm provides maximum stiffness at the tip of the dome. The result is clean, sooth and transparent sound reproduction with high efficiency from 900 Hz to 25 KHz at high power handling capacity.
The special ventilation design, SVS (Surround Vented System) provides two benefit: optimal cooling of moving coil to be able to handle high power without dynamic compression and avoiding compressing the air at the back of the dome, with a great reduction in distortion and extending response to lower frequency.
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.
The protection grill can be supplied in different colors (white, black and green) to adapt to the vehicle dashboard. The front faceplate can be easily removed with clips and replaced with an adaptor for mounting from inside of the door panels.
Tweeter can slide inside adaptor in five different position for a wide range of applications and/or assembly.
A practical “cup” allows mounting above the dashboard or above the pillar using different type of orientation.
The tweeter is supplied with a passive crossover with a practical cable connection and fast-on.
(The crossover must be placed in a dry place)



All measurements in millimeters

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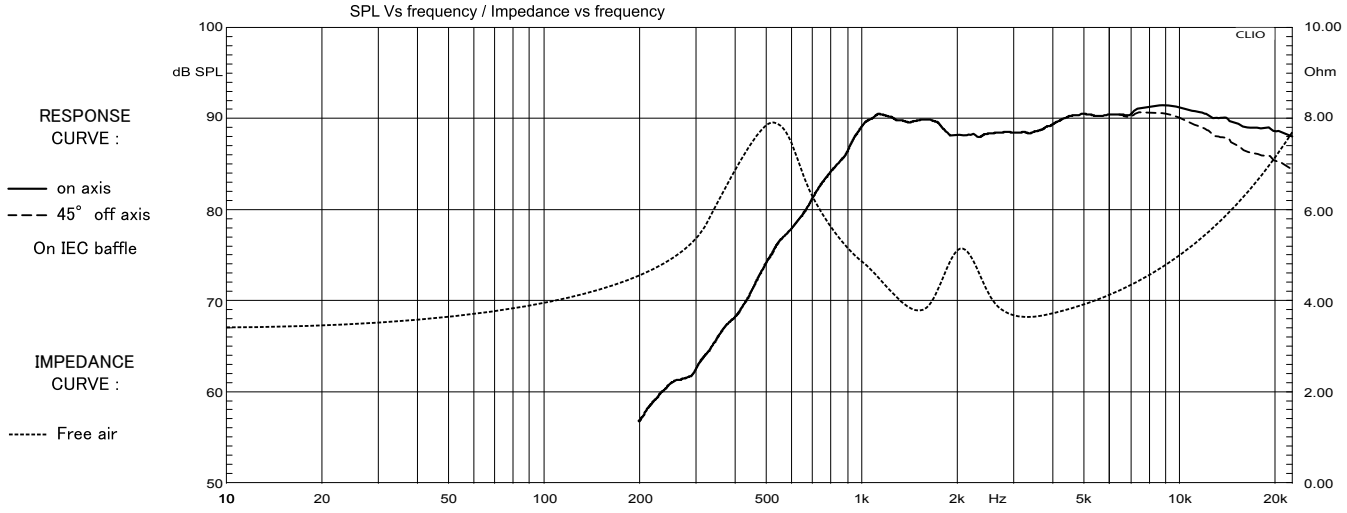
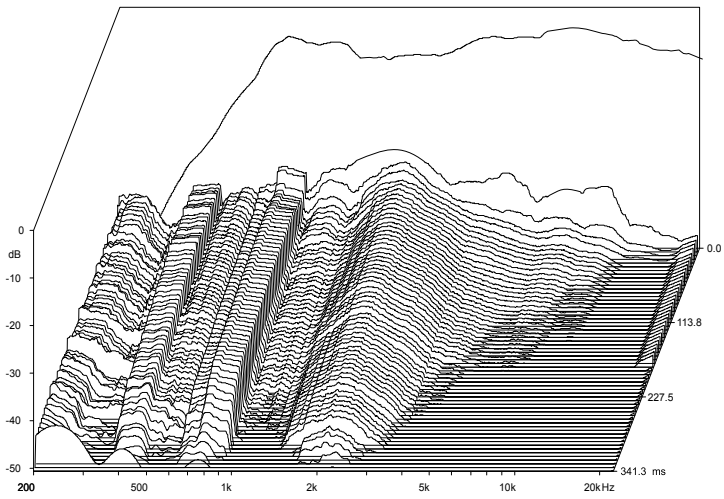
RESPONSE CURVE



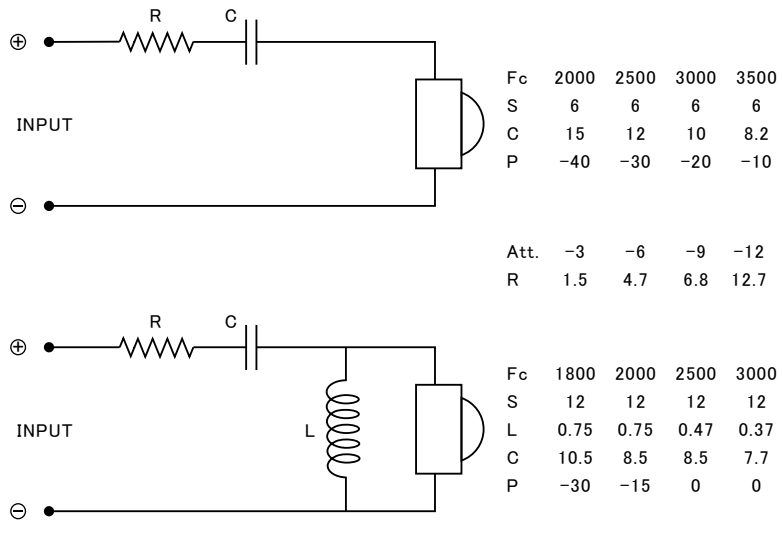
SPECIFICATIONS			
Technical Characteristics	Symbol	Value	Units
GENERAL DATA			
Overall Dimension	D x h	58 x 16.5	mm
Nominal Power Handling (AES)*	P	90	W
Transient Power *	Pp	180	W
Sensivity 1W/1m	SPL	91	dB SPL
Frequency Response	900 – 25.000		Hz
Net Weight	79		g
Dome Material	Torcon ®		
*Nominal and Transient power @ High Pass 2.5KHz–12db/Oct			
ELECTRICAL DATA			
Nominal Impedance	Z	4	Ω
DC Resistance	Re	3.5	Ω
Voice coil Inductance	Lbm	0.0517	µH
VOICE COIL AND MAGNET PARAMETERS			
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	3.5	mm
Max Linear excursion	Xmax	±0.5	mm
Flux density	B	1.2	T
BL Product	BxL	3.0769	Na
Magnet dimension	Ø x h	27 x 6	mm
Magnet weight	m	25.7	g
T&S PARAMETERS			
Mechanical Q Factor	Qms	1.5293	
Electrical Q Factor	Qes	0.5687	
Total Q Factor	Qts	0.5540	
Suspension Compilance	Cms	0.1340	N/m
Mechanical Resistance	Rms	1.5365	Ω
Moving Mass	mms	0.739	g
Eq. Comp. Air Load	VAS	0.012	l
Resonance Frequency	Fs	505	Hz
Effective Piston Area	SD	8.49	cm^2

CROSSOVER VALUE		
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 0.580MS



SUGGESTED APPLICATION



Fc	2000	2500	3000	3500
S	6	6	6	6
C	15	12	10	8.2
P	−40	−30	−20	−10

Att.	−3	−6	−9	−12
R	1.5	4.7	6.8	12.7

Fc	1800	2000	2500	3000
S	12	12	12	12
L	0.75	0.75	0.47	0.37
C	10.5	8.5	8.5	7.7
P	−30	−15	0	0