BETA BT 25

25 mm TWEETER · BETA 165.2 / 130.2 COMPONENT SYSTEMS



The **BETA BT 25** is the tweeter of the BETA 165.2 and BETA 130.2 component systems. A 25 mm silk dome with a neodymium motor sits behind a honeycomb grille and is connected through the CR-BETA crossover at 3.5 kHz with 12 dB/octave. Each tweeter can be mounted three ways: flush in a straight panel, in the surface housing or in the bracket with two slotted holes.

MEASURED DATA AND SPECIFICATIONS

Electrical

DC resistance	R_{dc}	3.27	Ω
Nominal impedance	Z_N	4	Ω
Resonance frequency	f_s	1530	Hz
Impedance at resonance	Z_{max}	7.0	Ω
Minimum impedance	Z_{min}	3.47	Ω
Inductance at 10 kHz	L_e	0.015	mH
Power handling RMS in the system		30	W
Power handling max. in the system		60	W

Q factors

Mechanical Q factor	Q_{ms}	3.62	
Electrical Q factor	Q_{es}	3.14	
Total Q factor	Q_{ts}	1.68	

CR-BETA crossover

Type		2nd-order high-pass	
Crossover frequency		3.5	kHz
Slope		12	dB/octave
Capacitor	C	4.7	µF
Inductor	L	0.22	mH
Tweeter level		+3 / 0	dB
Protection		PTC	
Outer dimensions		86 × 36 × 15	mm
Weight		60	g

Construction

Dome		Silk	
Dome diameter		25	mm
Effective piston area	S_d	6.6	cm^2
Magnet		Neodymium	
Cover		Honeycomb grille	
Weight without mounting parts		65	g

Flush mounting

Outer diameter	A	43.3	mm
Cut-out	C	40.6	mm
Mounting depth	T	20	mm
Flange thickness		2.5	mm
Overall height	G	27.6	mm

Surface housing

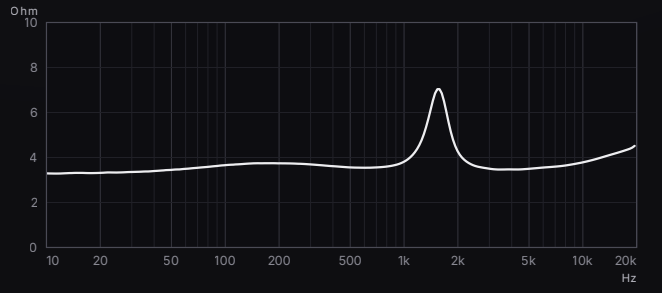
Outer diameter		44.5	mm
Height		31.4	mm
Fixing		drill as required	

Bracket

Overall length		128	mm
Hole spacing		91	mm
Slotted holes		9.6 × 4.7	mm

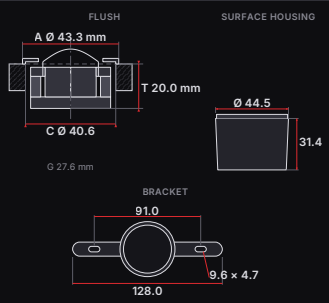
IMPEDANCE

free air, without crossover



DIMENSIONS

dimensions in mm



- Thiele-Small parameters measured in free air, small signal, without crossover.
- Power handling applies to operation with the CR-BETA crossover. Factory setting +3 dB; cutting the red-striped lead inserts a 3.9 Ω resistor and lowers the tweeter level to 0 dB.