

## BD20-6-031

Tweeter

DOMEMATERIAL:	DIAMOND
APPLICATION:	TWEETER
NOMINAL DIAMETER:	20 mm
SENSITIVITY:	89 dB



### MAIN FEATURES :

UNDERHUNG MOTOR DESIGN

SOFT FABRIC SURROUND

VENTED VC & POLE PIECE

FERROFLUID FILLING

2500 HZ - 80 KHZ

The **BD20-6-031** is a 0.8 inch tweeter with ultra hard **diamond dome** in a 82 mm front plate.

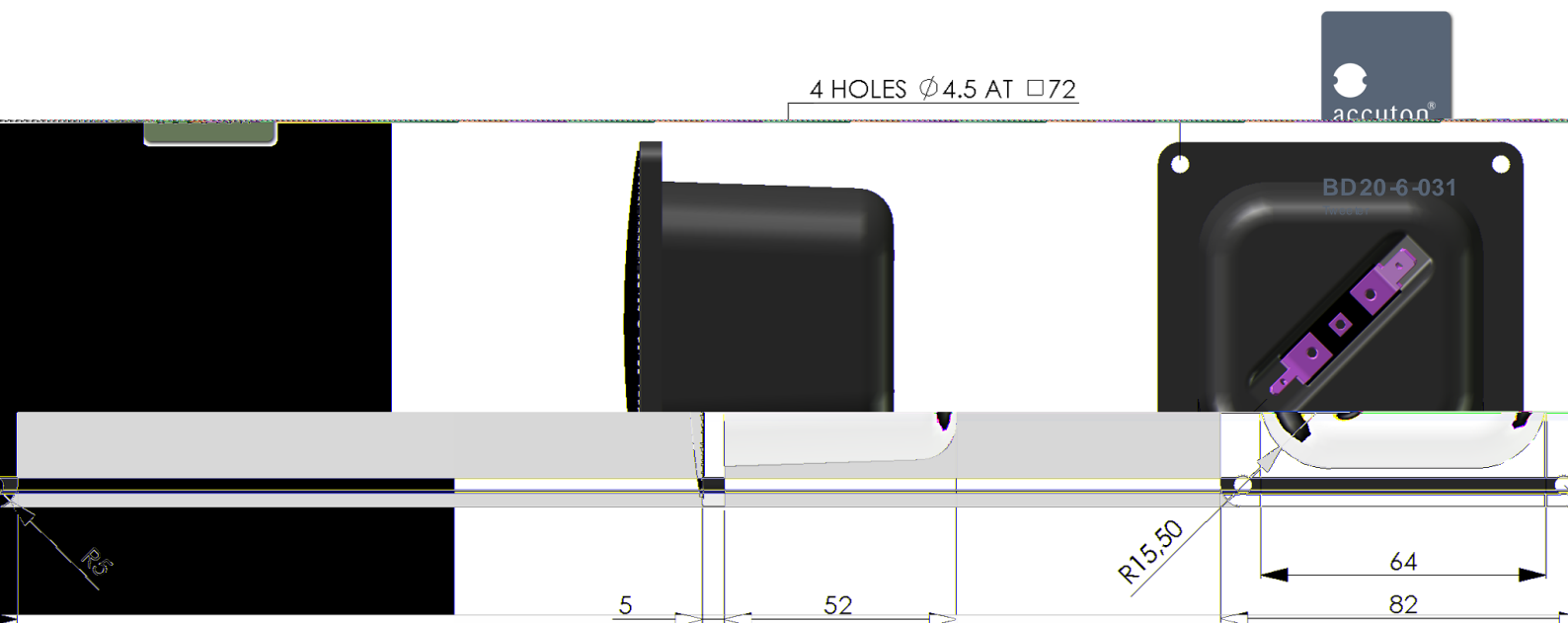
As the dome breakup is around 65 kHz and well damped, no cutouts are required.

The unsurpassed rigidity of the diamond dome leads to most accurate conversion from electrical energy to sound pressure.

An **FEA optimized** underhung motor design with vented aluminum voice coil former and neodymium magnet guarantees low energy storage and excellent heat transfer.

The **soft fabric surround** and ferrofluid with high viscosity center the moving parts with distinctive linearity.

We recommend an application above 2500 Hz.



#### Mechanical data

Overall square	82	mm
Cutout hole square	64	mm
Front plate depth	5	mm
Overall depth	57	mm
Motor assembly diameter	-	
Motor assembly depth	-	
Screw fitting	DIN 7984, 4mm	
Terminal	+ : 4.8 x 0.8 /- : 2.8 x 0.8	
Shipping weight / net weight (one piece)	0.48 / 0.38	mm
Shipping box size (pair)	130 / 130 / 190	mm

#### Thiele/Small Parameters

Sensitivity (2.83V / 1m)	Lp	89*	dB
DC-resistance	Re	6.2	Ohm
resonance frequency	Fs	950	Hz
equivalent volume of air	Vas	-	L
mechanical Q	Qms	0.54	
electrical Q	Qes	0.71	
total Q	Qts	0.31	
effective piston area	Sd	3.46	cm <sup>2</sup>
moving mass	Mms	0.19	g
suspension compl.	Cms	0.141	mm/N
mechanical resistance	Rms	2.21	kg x/s

#### Voice Coil data

Power handling	P	120*	Watt
Linear excursion	Xmax	+/- 0.1	mm
Voice coil diameter		19.4	mm
Voice coil former material		Al	
Voice coil wire material		Cu	
Voice coil inductance	Le	0.01	mH
Force factor	Bl	3.21	N/A
Motor type		Underhung	
Ferrofluid filling		yes	

\* Please refer to [www.accuton.com](http://www.accuton.com) for exact measurement conditions and further information.

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