



P220 **P**ASSIVE RADIATOR-PASSIVE RADIATOR

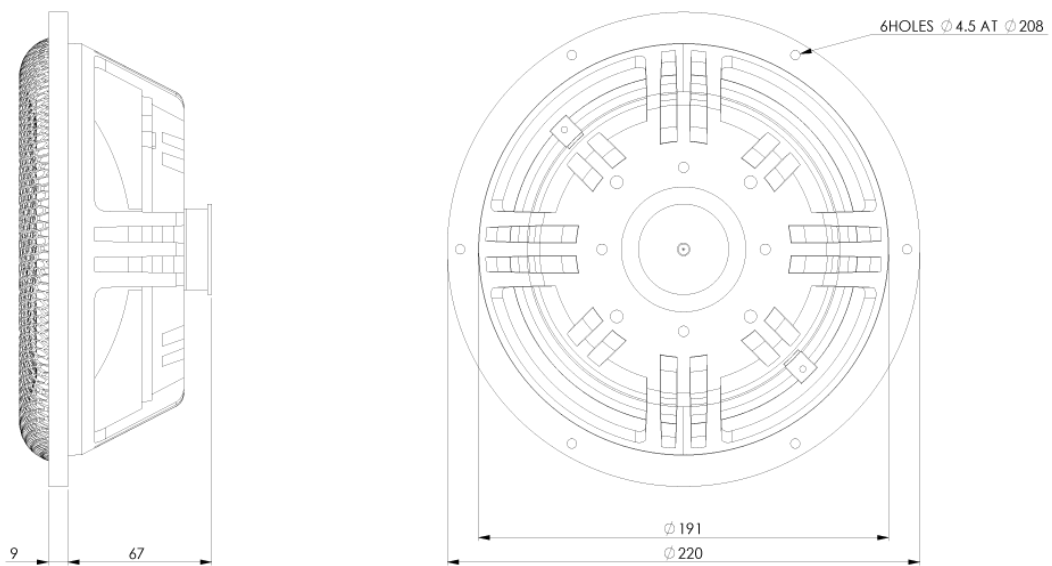
The **P220** is a 8 inch Passive Radiator with an Aluminium Sandwich Dome. Extra mass can easily be added to tune the resonance frequency. A simple but robust screw mount provides fixing of stainless steel discs in the desired quantity.

The values of V_{as} and C_{ms} allow for extensive tuning and various box sizes.

The stated resonance frequency of the passive radiator is taken at 3mm excursion, offering a realistic value.

It can be calculated as follows:

$$F_{res} = \sqrt{\frac{1}{(C_{ms} \text{ corr.}) \times M_{ms} \times 4 \pi^2}} \quad \text{with} \quad C_{ms} \text{ corr.} = \frac{1}{\left[\frac{1}{C_{ms}} + \frac{1}{(V_b/V_{as}) \times C_{ms}}\right]}$$



Dome material	Passive Radiator
Application	Passive Radiator
Overall diameter	220 MM
Cutout Diameter/Square	190.5 MM
Overall depth	76 MM
Motor assembly depth	0 mm
Motor assembly diameter	0 mm

MAIN FEATURES

Robust Extra Mass & Screw Mount
 Soft Rubber Surround
 Low loss Spider and Surround
 Resonance Tuning
 20 HZ - 60 HZ

MECHANICAL DATA

Specification	Value	Unit
Overall diameter	220	mm
Cutout Diameter/Square	190.5	mm
Min. frontplate thickness	9	mm
Overall depth	76	mm
Motor assembly depth	0	mm
Motor assembly diameter	0	mm
Screwfitting	DIN 7984 / 4mm	mm
Terminal	0	mm
Shipping weight (pair)	6.3	Kg
Shipping box size (pair)	250/290/250	mm

THIELE/SMALL PARAMETERS

Specification		Value	Unit
Sensitivity (2.83V / 1m)	Spl	0	dB
DC-resistance	Re	0	Ohm
Resonance frequency	Fs	41	Hz
Equivalent volume of air	Vas	26.5	ltr
Mechanical Q	Qms	0	
Electrical Q	Qes	0	
Total Q	Qts	0	
Effective piston area	Sd	224	Cm2
Moving mass	Mms	23.4	g
Suspension compliance	CMs	0.64	mm/n
Mechanical resistance	Rms	0	Kg*s

VOICE COIL PARAMETERS

Specification		Value	Unit
Power handling	P	0	W
Linear excursion	Xmax	11	mm
Voice coil diameter		0	mm
Voice coil former material		0	
Voice coil material		0	
Voice coil inductance	Le	0	mH
Force factor	Bl	0	N/A
Motor type		0	
Ferrofluid filling		No	