



# 3451

Nominal Diameter	10 " / 25 cm
Rated Impedance	8 Ω
Sensitivity	97 dB SPL
Power Handling Capacity	200 W AES
SPL max (continuous)	116 dB SPL
Usable frequency range	150-4000 Hz
Speaker net mass	5,8 kg

# 10 inches mid driver



### Architecture highlights :

- Midrange unit with critical damping diaphragm
- Ultra light CCAR voice coil
- Natural convection Intercooler System

### Motor architecture

Magnet material	-	Fe
Voice coil diameter	mm	64
Voice coil length	mm	11
Air gap height	mm	8

### Typical characteristics

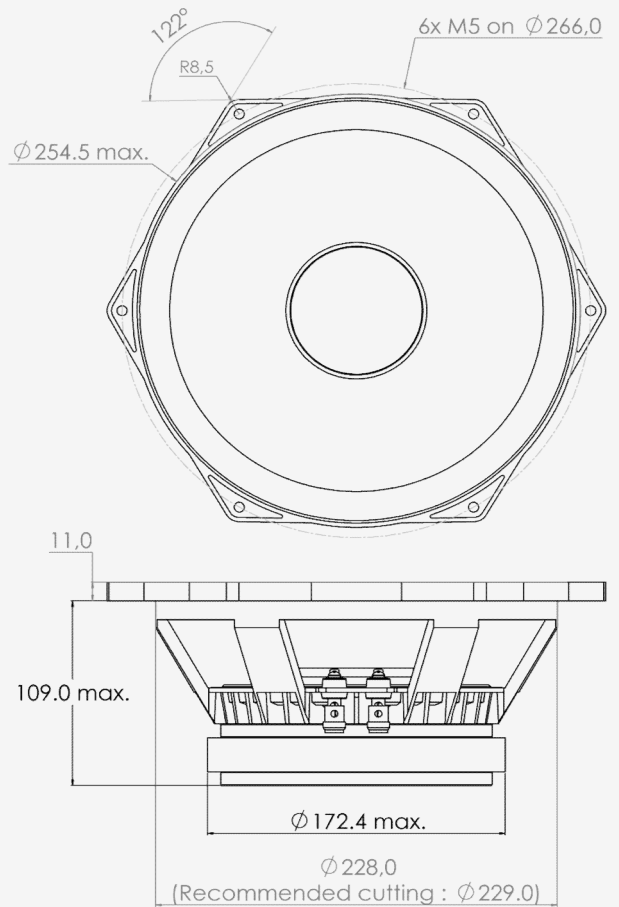
Rated impedance	Z	Ω	8
Half space sensitivity (1W@1m)	-	dB SPL	97,0
Usable freq. range	-	Hz	150-4000
Power handling capacity (AES)	-	W	200
Max Sound Pressure Level	SPL <sub>max</sub>	dB SPL	116
Min. impedance modulus	Z <sub>min</sub>	Ω@Hz	5.5@430
Voice-coil inductance @ 1kHz	Le <sub>1k</sub>	mH	1,014
Voice-coil inductance @ 10kHz	Le <sub>10k</sub>	mH	0,487
BL product	BL	N/A	15,7
Moving mass	Mms	kg	0,0340

### Thiele-Small parameters

Resonance frequency	Fs	Hz	91 (±)
DC Resistance	Re	Ω	5 (±0.5)
Mechanical quality factor	Qms	1	3,04
Electrical quality factor	Qes	1	0,40
Total quality factor	Qts	1	0,35
Suspension compliance	Cms	10 <sup>-6</sup> .m/N	90
Effective piston area	Sd	m <sup>2</sup>	0,0377
Equivalent Cas air load	Vas	m <sup>3</sup>	0,0178
Max linear excursion	Xmax	mm	± 2,5
Linear displacement volume	Vd	10 <sup>-3</sup> .m <sup>3</sup>	0,0942
Reference efficiency	η <sub>0</sub>	%	3,3
Unity load volume	Vas.Qts <sup>2</sup>	10 <sup>-3</sup> .m <sup>3</sup>	2,2

### Absolute maximum ratings

Short term max. input voltage	Vmax	V	80
Max.excursion before damage	Xdam	mm	± 4,0
Ambient operating temperature	Ta	°C	-10 to +50
Storage temperature		°C	-20 to +70
Environmental withstanding			tropical



### Mounting information

Air volume occupied by the driver	10 <sup>-3</sup> .m <sup>3</sup>	1,50
Speaker net mass	kg	5,80
Baffle cut-out diameter (front mounting)	mm	229,0
Bolt number & Metric diameter	-	6x M5
Bolt circle diameter	mm	266,0
Max overall dimension (on ears)	mm	283,5
Max overall dimension (out of ears)	mm	254,5
Flange height	mm	11,0
Max magnet diameter	mm	172,4
Max depth (front mounting)	mm	109,0
Recommended reflex box	Lts / Hz	4 - 6L
Electrical connection		Ø4 mm Push buttons