



## 4071-1

Nominal Diameter	12" / 30 cm
Rated Impedance	8
Sensitivity	95.5 dB SPL
Power Handling Capacity	400 W AES
SPL max (continuous)	118 dB SPL
Usable frequency range	50 - 2500 Hz
Speaker net mass	8.7 kg

## 12" low-mid driver / 1" coaxial



### Architecture highlights :

- Noiseless Natural Convection Intercooling System
- Front side coated curvilinear cone designed for 2 way systems operation
- Neodymium magnet System with symmetric  $BL(x)$  and  $Le(x)$  characteristics
- Coaxial apparatus "-1" with 2x M6 on  $\varnothing 76.2$  mm and 3x M6 on  $\varnothing 56.2$  mm (Max diameter for HF driver = 142.0 mm)

### Motor architecture

Magnet material	-	Fe
Voice coil diameter	mm	77
Voice coil length	mm	18
Air gap height	mm	10

### Typical characteristics

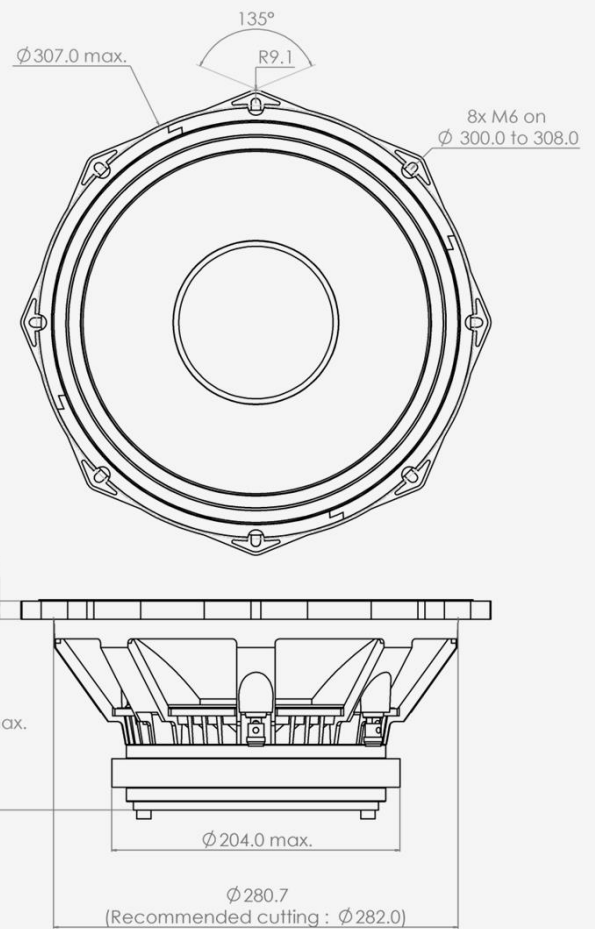
Rated impedance	Z	$\Omega$	8
Half space sensitivity (1W@1m)	-	dB SPL	95.5
Usable freq. range	-	Hz	50 - 2500
Power handling capacity (AES)	-	W	400
Max Sound Pressure Level	$SPL_{max}$	dB SPL	118
Min. impedance modulus	$Z_{min}$	$\Omega @ Hz$	6.2@270
Voice-coil inductance @ 1kHz	$Le_{1k}$	mH	1.134
Voice-coil inductance @ 10kHz	$Le_{10k}$	mH	0.550
BL product	BL	N/A	20.6
Moving mass	Mms	kg	0.0670

### Thiele-Small parameters

Resonance frequency	$F_s$	Hz	47 ( $\pm$ )
DC Resistance	$R_e$	$\Omega$	5.5 ( $\pm 0.6$ )
Mechanical quality factor	$Q_{ms}$	1	4.14
Electrical quality factor	$Q_{es}$	1	0.26
Total quality factor	$Q_{ts}$	1	0.24
Suspension compliance	$C_{ms}$	$10^{-6}.m/N$	170
Effective piston area	$S_d$	$m^2$	0.0493
Equivalent Cas air load	$V_{as}$	$m^3$	0.0578
Max linear excursion	$X_{max}$	mm	$\pm 6.5$
Linear displacement volume	$V_d$	$10^{-3}.m^3$	0.3203
Reference efficiency	$\eta_0$	%	2.3
Unity load volume	$V_{as}.Q_{ts}^2$	$10^{-3}.m^3$	3.4

### Absolute maximum ratings

Short term max. input voltage	$V_{max}$	V	115
Max.excursion before damage	$X_{dam}$	mm	$\pm 12.0$
Ambient operating temperature	$T_a$	$^{\circ}C$	-10 to +50
Storage temperature		$^{\circ}C$	-20 to +70
Environmental withstanding			Humidity proof



### Mounting information

Air volume occupied by the driver	$10^{-3}.m^3$	2.60
Speaker net mass	kg	8.70
Baffle cut-out diameter (front mounting)	mm	282.0
Bolt number & Metric diameter	-	8x M6
Bolt circle diameter	mm	300 to 308
Max overall dimension (on ears)	mm	326.5
Max overall dimension (out of ears)	mm	307.0
Flange height	mm	12.8
Max magnet diameter	mm	204.0
Max depth (front mounting)	mm	128.5
Recommended reflex box	Lts / Hz	-
Electrical connection		$\varnothing 4$ mm Push buttons

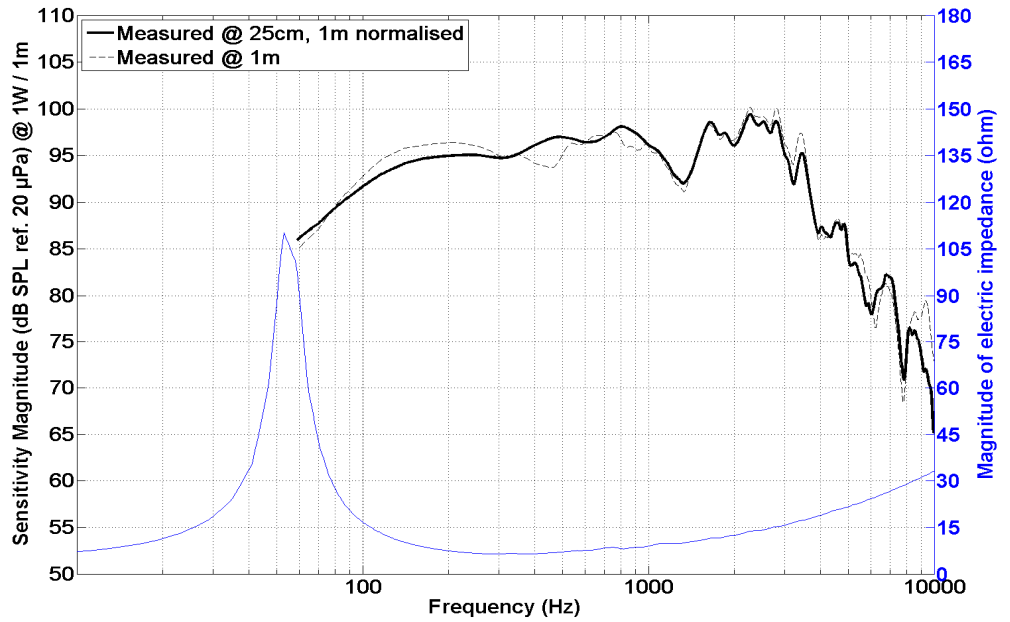


4071-1

12" low-mid driver / 1" coaxial

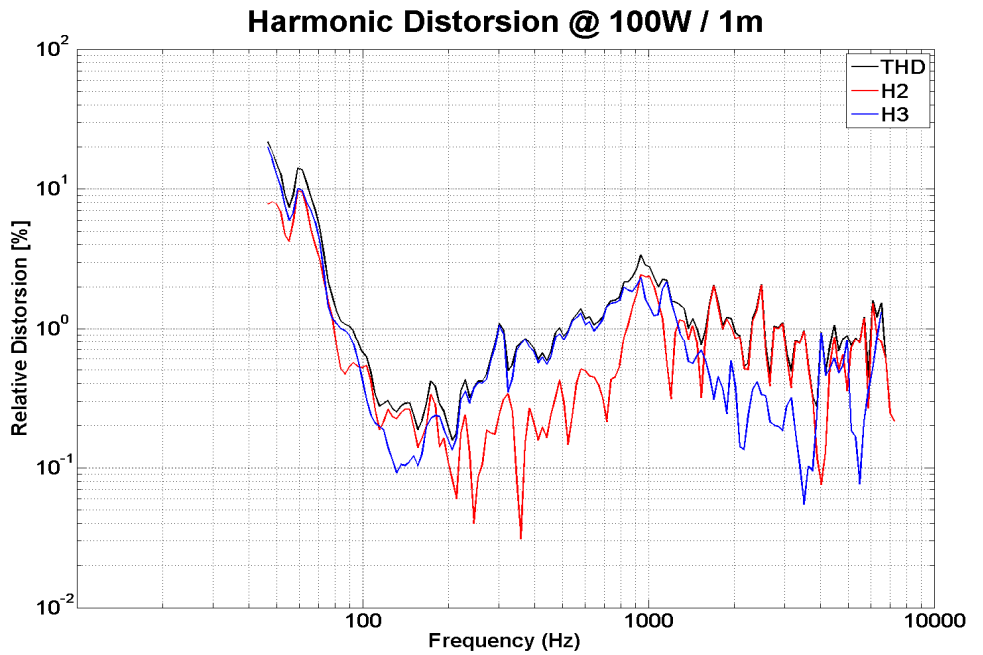
SPL curves measured on CEI standard baffle :

- . at 25 cm, normalised 1 m
- . at 1 m for reference
- . Graph amplitude = 60 dB (PHL Audio standard)



HD curve measured on CEI standard baffle :

- . at 1 meter
- . at power =  $P_{AES} / 4$
- . Graph amplitude 0.01 % to 100 % (PHL Audio standard for  $P_{AES}/4$ )



Non linear curves measured thanks to Klippel software and hardware, in free air

