4041NdS

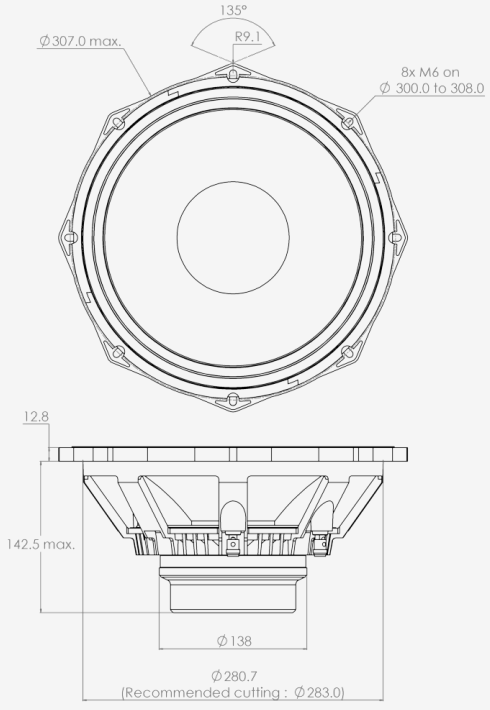
12 inches bass driver

Nominal Diameter	**12" / 30cm**
Rated Impedance	**8 Ω**
Half space sensitivity (1W@1m)	**98 dB SPL**
Power Handling Capacity	**400 W AES**
SPL max (continuous)	**121 dB SPL**
Usable frequency range	**50 - 2500 Hz**
Speaker net mass	**6.2 kg**

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)
- High compliance double half-roll Fabric Surround

Motor architecture			
Magnet material		-	**Nd**
Voice coil diameter		mm	**77**
Voice coil length		mm	**18**
Air gap height		mm	**10**
Typical characteristics			
Rated impedance	Z	Ω	**8**
Half space sensitivity (1W@1m)	-	dB SPL	**98.0**
Usable freq. range	-	HZ	**50 - 2500**
Power handling capacity (AES)	-	W	**400**
Max Sound Pressure Level	SPLmax	dB SPL	**121**
Min. impedance modulus	Zmin	Ω@Hz	**6.3@280**
Voice-coil inductance @ 1kHz	Le1k	mH	**1.031**
Voice-coil inductance @ 10kHz	Le10k	mH	**0.590**
BL product	BL	N/A	**25.0**
Moving mass	Mms	kg	**0.068**
Thiele-Small parameters			
Resonance frequency	Fs	Hz	**47 (±6)**
DC Resistance	Re	Ω	**5.5 (±0.6)**
Mechanical quality factor	Qms	1	**4.02**
Electrical quality factor	Qes	1	**0.18**
Total quality factor	Qts	1	**0.17**
Suspension compliance	Cms	10^{-6}.m/N	**170**
Effective piston area	Sd	m^2	**0.0531**
Equivalent Cas air load	Vas	m^3	**0.0665**
Max linear excursion	Xmax	mm	**± 6.5**
Linear displacement volume	Vd	$10^{-3}.m^3$	**0.3451**
Reference efficiency	H	%	**3.8**
Unity load volume	$Vas.Qts^2$	$10^{-3}.m^3$	**1.9**
Absolute maximum ratings			
Short term max. input voltage	Vmax	V	**115**
Max.excursion before damage	Xdam	mm	**± 16**
Ambient operating temperature	Ta	°C	**-10 to +50**
Storage temperature		°C	**-20 to +70**
Environemental withstanding			**Humidity proof**



Application information			
Air volume occupied by the driver	$10^{-3}.m^3$		**2.1**
Speaker net mass	kg		**6.2**
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		**140.0**
Max depth (front mounting)	mm		**142.5**
Recommended reflex box	Lts / Hz		**35L / 65Hz**
Electrical connection	-		**Ø4 mm Push buttons**