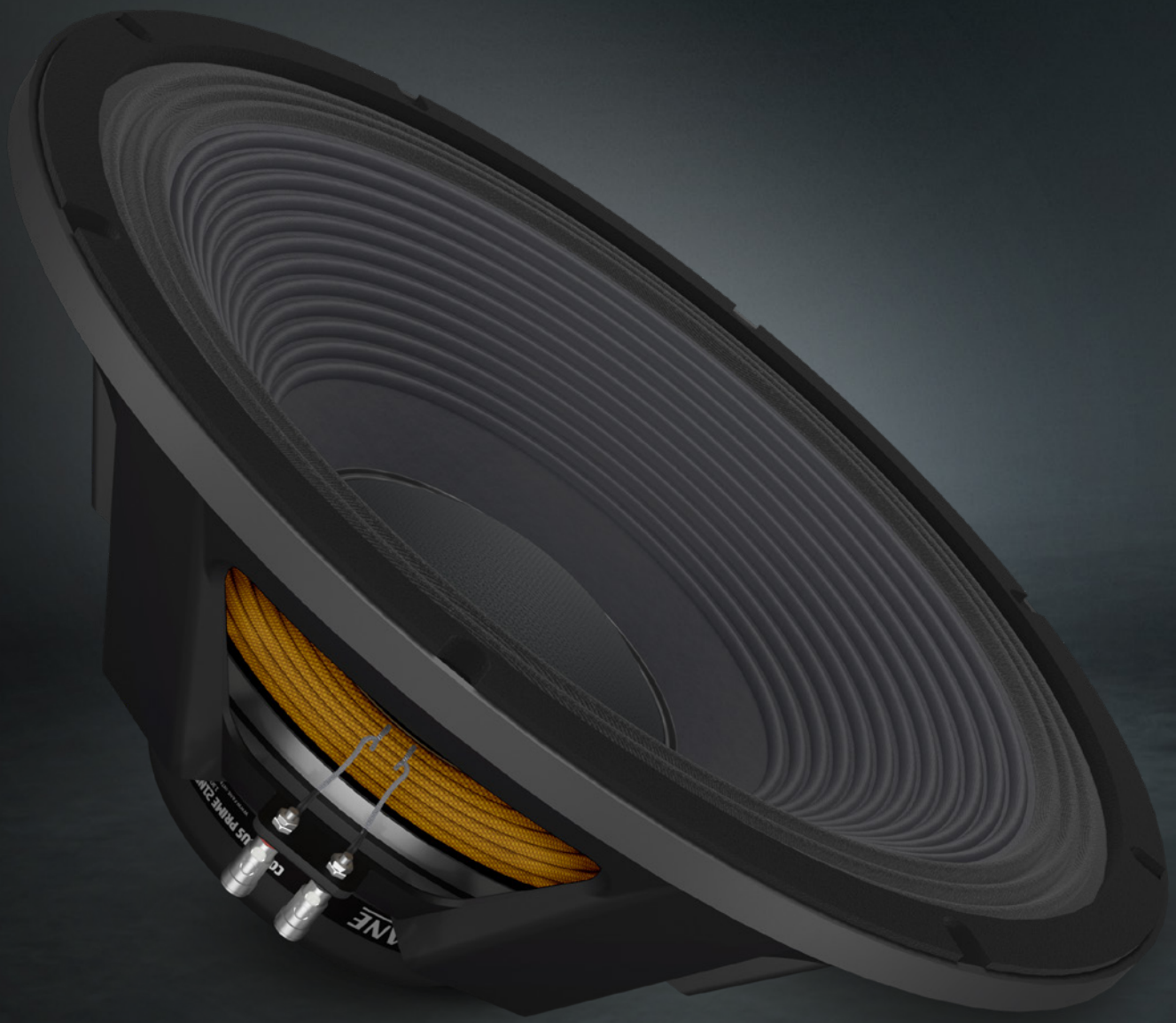
COLOSSUS PRIME 21NDXL

21” NEODYMIUM SUB BASS DRIVER

21” / 530 mm	1500 W	30 Hz - 300 Hz	5.5” / 138.7 mm	98 dB	11 mm Xmax
CHASSIS DIAMETER	AES POWER HANDLING	FREQUENCY RESPONSE	VOICE COIL DIAMETER	SENSITIVITY (1W/ 1m)	MAX. LINEAR EXCURSION

The Colossus Prime 21NDXL surpasses expectations as an incredibly high-performing, low-distortion driver that is ideal for hybrid horn-loaded and bass reflex cabinet designs. With a sensitivity of 98 dB across its working band and an ability to handle 3000 W of continuous program power, to meet the demands of high-powered applications.

Equipped with a neodymium magnetic assembly, the Colossus Prime 21NDXL generates a remarkable force factor of 30 T/m, enabling linear excursion for unparalleled performance. In addition, its optimised suspension system and ribbed paper cone provide exceptional mechanical stability and control. This design ensures extremely low distortion and allows for an impressive 60 mm of peak-to-peak excursion before reaching the damage threshold, guaranteeing consistent and reliable performance.



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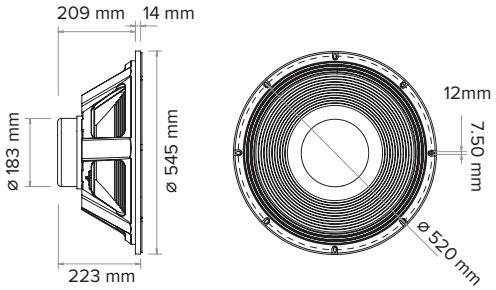
21” NEODYMIUM SUB BASS DRIVER

1500 W	5.5” / 138.7 mm	98 dB
AES POWER HANDLING	VOICE COIL DIAMETER	SENSITIVITY (1W/ 1m)

- **Rigid cone membrane ensures tight, accurate bass at high excursion and SPL.**
- **5.5” Inside/ Outside windings, copper voice coil.**
- **Optimised, forced air cooling of the neodymium motor system offers effective power compression reduction.**
- **Silicone damped suspension system with optimised compliance.**
- **Suitable for hybrid horn-loaded and bass reflex enclosure designs.**



GENERAL SPECIFICATIONS

Nominal Chassis Diameter	21” / 530 mm
Nominal Impedance (1)	8 Ohm
Minimum Impedance (Zmin)	-- Ω
AES Power Handling (2)	1500 W (A.E.S.)
Program Power	3000 W
Peak Power (6dB Crest Factor)	6000 W
Frequency Range (-6dB)	30 Hz - 300 Hz
Sensitivity (1W/ 1m)	98 dB
Magnet Material	Neodymium
Magnet Weight	-
Magnetic Gap Depth	0.47” / 12 mm
Flux Density	1.45 Tesla
Former Material	Glass Fibre
Voice Coil Material	Copper - Inside/ Outside
Coil Winding Height	1.26” / 32 mm
Voice Coil Diameter	5.5” / 138.7 mm
Cone/ Dust Dome Material	Fibre Loaded Paper / Paper
Surround / Edge Termination	Fabric

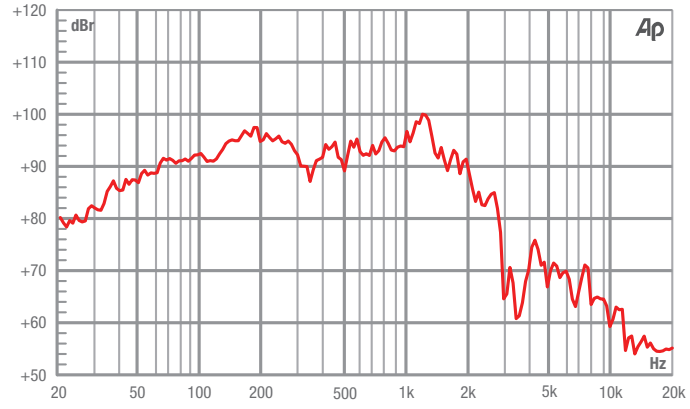
TECHNICAL & THIELE SMALL PARAMETERS

Fs	33 Hz
Re	5.1 Ω
Qms	9.8
Qes	0.374
Qts	0.36
Vas	241 Litres
Vd	1.67 Litres
Cms	73.4 µm/N
Bl	30 T/m
Mms	320 g
Xmax	14 mm
Sd	1520 cm^2
Efficiency	2.2 %
Le (1k Hz)	2.4 mH
EBP	88.24 Hz
Effective Piston Diameter	455 mm
Rec. Enclosure Volume	150 - 200 Litres

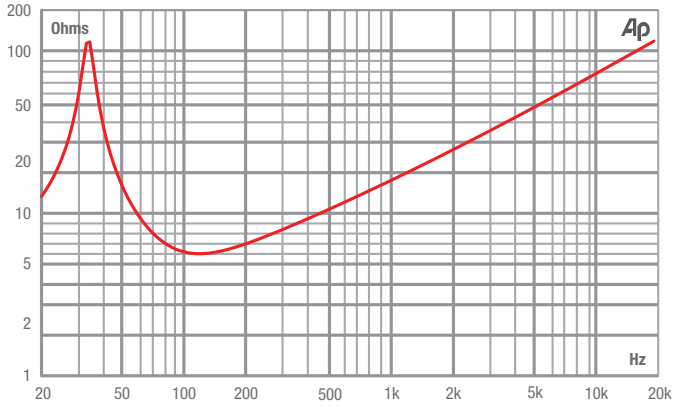
MOUNTING / SHIPPING INFORMATION

Overall Diameter	545 mm
Width Across Flats	N/A
Depth	8.85” / 225 mm
Flange Height	0.55” / 14 mm
Baffle Hole Diameter F/M	495 mm
Baffle Hole Diameter R/M	493 mm
Chassis Material	Die-cast Aluminium
Gasket Supplied	Front and Rear
Outer Fixing Holes	6x 12 mm x 7 mm slots on 520 mm PCD
Inner Fixing Holes	N/a
Connectors (4)	Push-button Spring Terminals
Weight	approx 12.5 Kg
Shipping Weight	approx 16.5 Kg
Packing Carton Size (mm)	(W) 591 (D) 591 (H) 265

FREQUENCY RESPONSE DATA (3)



IMPEDANCE



(1) Please enquire about alternative impedances.

(2) A.E.S. power handling test. Pink noise bandpass filtered at 12 dB per octave with cutoff frequencies of 35 Hz and 350 Hz. Driver mounted in free air, test signal applied at rated power for two hours.

(3) Half space response measured in a 975 Litre sealed box. Please note that the frequency response measurements are supplied for comparison only and are not a measure of the low frequency performance which may be achieved in a fully optimised system.

(4) Positive voltage at red terminal causes forward motion of cone.

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