

# COLOSSUS PRIME 21XS

## 21" FERRITE SUB BASS DRIVER

21" / 530 mm

CHASSIS DIAMETER

1500 W

AES POWER HANDLING

30 Hz - 300 Hz

FREQUENCY RESPONSE

5.5" / 138.7 mm

VOICE COIL DIAMETER

97.5 dB

SENSITIVITY (1W/ 1m)

11 mm Xmax

MAX. LINEAR EXCURSION

The Colossus Prime 21XS is a highly dynamic driver with exceptionally low distortion, ideal for hybrid horn-loaded and bass reflex cabinet designs. The 21XS delivers a sensitivity of 97.5 dB across its operating range and can handle up to 3000 W of continuous program power.

The driver is equipped with a ceramic magnetic assembly that generates an impressive force factor of 31.3 T/m and supports

linear excursion. Its design includes an optimised suspension system and a ribbed paper cone, offering outstanding mechanical stability and control. This results in extremely low distortion and allows for a peak-to-peak excursion of 60 mm before damage.



# FANE

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# COLOSSUS PRIME 21XS

## 21" FERRITE SUB BASS DRIVER

FANE

1500 W

AES POWER HANDLING

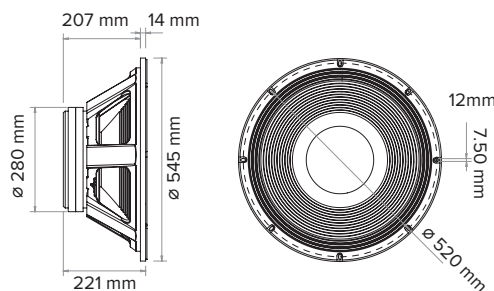
5.5" / 138.7 mm

VOICE COIL DIAMETER

97.5 dB

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 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 <sup>(1)</sup>	8 Ohm
Minimum Impedance <sup>(Z<sub>min</sub>)</sup>	6.5 Ω
AES Power Handling <sup>(2)</sup>	1500 W (A.E.S.)
Program Power	3000 W
Peak Power <sup>(6dB Crest Factor)</sup>	6000 W
Frequency Range <sup>(-6dB)</sup>	30 Hz - 300 Hz
Sensitivity <sup>(1W/1m)</sup>	97.5 dB
Magnet Material	Ferrite
Magnet Weight	-
Magnetic Gap Depth	0.47" / 12 mm
Flux Density	1.2 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

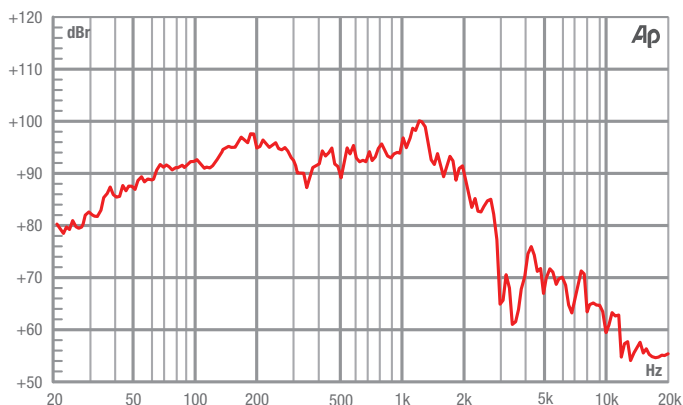
### TECHNICAL & THIELE SMALL PARAMETERS

Fs	35 Hz
Re	5.1 Ω
Qms	7.88
Qes	0.354
Qts	0.339
Vas	266 Litres
Vd	1.67 Litres
Cms	65.5 μm/N
Bl	31.3 T/m
Mms	304 g
Xmax	14 mm
Sd	1520 cm <sup>2</sup>
Efficiency	3.1 %
Le <sup>(l<sub>tk</sub> Hz)</sup>	1.48 mH
EBP	88.24 Hz
Effective Piston Diameter	455 mm
Rec. Enclosure Volume	150 - 200 Litres

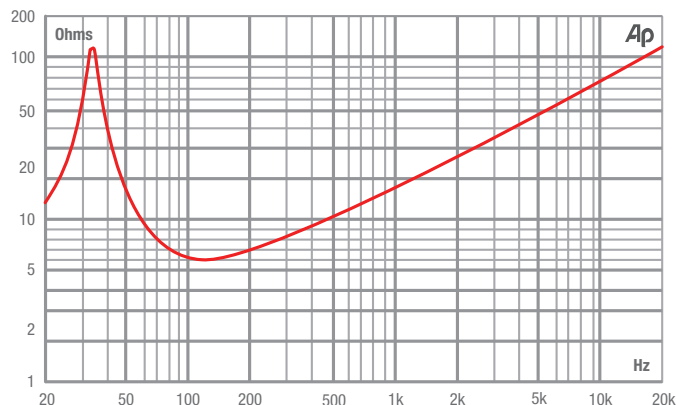
### MOUNTING / SHIPPING INFORMATION

Overall Diameter	545 mm
Width Across Flats	N/A
Depth	8.78" / 223 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 <sup>(4)</sup>	Push-button Spring Terminals
Weight	approx 26.5 Kg
Shipping Weight	30.5 Kg
Packing Carton Size <sup>(mm)</sup>	(W) 591 (D) 591 (H) 265

### FREQUENCY RESPONSE DATA <sup>(3)</sup>



### 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.