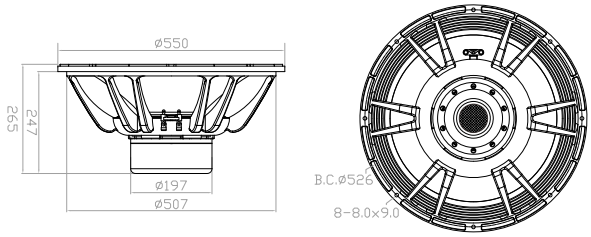
21SW152-4NW

BASS/MID RANGE DRIVER

KEY FEATURES

- 96dB 1W/1m sensitivity
- 2500W AES power handling
- 30Hz-1kHz frequency response
- 153mm (6.0in) copper voice coil
- Lightweight neodymium inside slug motor system
- Aluminum demodulating ring for lower distortion
- Double silicon spider for superior excursion control and linearity
- Heavy-duty cast aluminum chassis for increased rigidity
- Suitable for high SPL subwoofer designs

MECHANICAL DRAWING

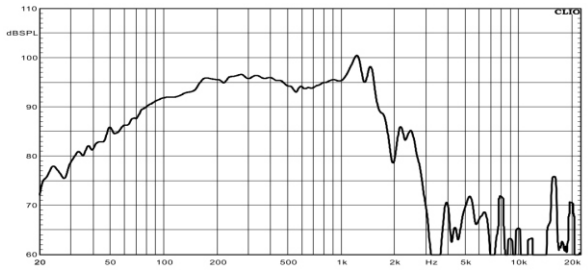


GENERAL SPECIFICATIONS

Part Number	21SW152-4NW
Nominal Diameter	550mm (21in)
Nominal Impedance	4Ω
Minimum Impedance	4.2Ω
AES Power Handling[1]	2500W
Maximum Power Handling[2]	5000W
Sensitivity (1W/1m)[3]	96dB
Resonance Frequency	30Hz
Frequency Range	30Hz-1kHz
Voice Coil Diameter	153mm
Winding Material	Copper
Former Material	Glass Fiber
Winding Depth	30mm
Magnetic Gap Depth	12mm
Xmax[4]	13mm
Flux Density	1.15T
Basket Material	Cast Aluminum
Magnet Material	Neodymium Inside Slug
Suspension Material	Double Fabric
Surround Material	W-Roll Cloth-sealed
Cone Material	Curvilinear Paper
Net Weight	18kg

FREQUENCY RESPONSE CURVE

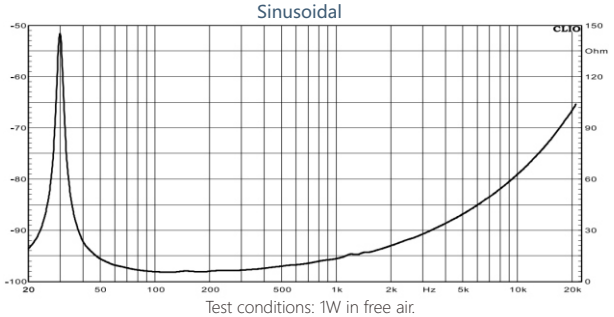
LogChirp-Frequency Response



Test conditions: 1W/1m standard test box in anechoic chamber.

IMPEDANCE CURVE

Sinusoidal



Test conditions: 1W in free air.

TS Parameters[5]

Fs	29Hz	Qms	22.6
Re	3.2Ω	Qes	0.35
Le	0.89mH	Qts	0.34
Mms	510g	Vas	225L
Mmd	432g	Ref. Efficiency	1.6%
Cms	0.06mm/N	Sd	1680cm^2
BL	29.6Tm	EBP	82Hz

NOTES

1. Two hours test according to AES 2-1984 Rev. 2003.
   Power calculated on rated minimum impedance.
2. Maximum power is defined as 3dB greater than Nominal power.
3. Applied RMS Voltage is set to 2 V for 4 ohms Nominal Impedance.
4. Xmax=[(winding depth-magnetic gap depth)/2]+(magnetic gap depth/3).
5. Thiele-Small parameters are measured after a preconditioning test.
6. Power test by continuous pink noise signal within the frequency range.