

PART NUMBER 11100091

Features

- 4.5 inch, fibreglass inside-outside copper voice coil
- 3600 Watt continuous program power handling
- 97 dB Sensitivity
- 30 Hz 1 kHz Frequency range
- 30.5 T/m BL
- 54 mm peak-to-peak excursion
- Dual-forced hyper-venting and 15mm top plate for minimum power compression
- Dual spider design with silicon based dampening control
- Triple-roll surround and corrugated straight cone geometry

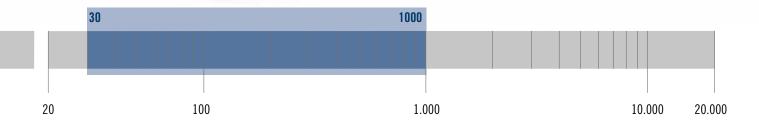
Incredibly linear frequency response characteristics, the highest power handling of any comparable 18-inch transducer, the lowest power compression. The LF18X451 features a fibre loaded cone assembly along with a high excursion triple roll, constant geometry surround: this combination provides remarkable strength and a peak to peak maximum excursion of 54 mm. The new dual forced hyper-venting system guarantee a very efficient voice coil ventilation for minimum power compression and incredible power handling. A double silicon spider system ensures excellent control during large excursions. A

A double silicon spider system ensures excellent control during large excursions. A fully optimised T-pole design generate the minimum amount of flux modulation.

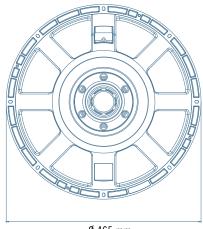
Applications

The LF18X451 is ideal in applications where combinations of incredible power handling, reasonable weight and ultra fast time response are required. Perfect for powerful lows in horn loaded sub bass systems or reflex designs. Ideal for touring, find a perfect application in high power, heavy duty, club subwoofer systems.

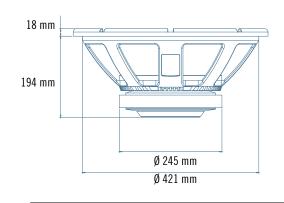


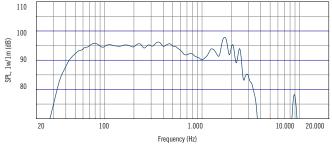


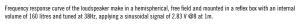


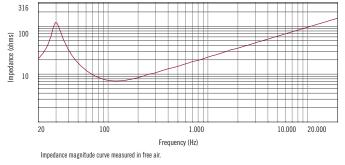












Nominal Diameter	460 / 18	mm/inch
Rated Impedance	8	ohm
Program Power ¹	3600	Watts
Power handling capacity ²	1800	Watts
Sensitivity ³	97	dB
Frequency Range	30-1000	Hz
Effective Piston Diameter	395 / 15,6	mm/inch
Max Excursion Before Damage (peak to peak)	54 / 2,12	mm/inch
Minimum Impedance	6,8	ohm
Voice Coil Diameter	115 / 4.5	mm/inch
Voice Coil Material	Copper	
Voice coil former material	Fiberglass	
Voice Coil Winding Depth	34 / 1,33	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	15 / 0,6	mm/inch
Cone Material	No pressed pulp	
Cone Design	Straight	
Surround Material	Polycotton	
Surround Design	Triple roll	

Thiele - Small Parameters⁴

General Specifications

Resonance frequency	Fs	30	Hz
DC resistance	Re	5,4	ohm
Mechanical factor	Qms	6,7	
Electrical factor	Qes	0,29	
Total factor	Qts	0,28	
BL Factor	BL	30,5	T · m
Effective Moving Mass	Mms	260	gr
Equivalent Cas air load	Vas	220	liters
Effettive piston area	Sd	0,122	m²
Max. linear excursion (mathematical) ⁵	Xmax	13,5	mm
Voice - coil inductance @ 1KHz	Le1K	1,4	mH
Half-space efficiency	Eff	1,90	%

Mounting Information		
Overall Diameter	465 / 18,3	mm/inch
Bolt Circle Diameter	442-447 / 17,4-17,6	mm/inch
Bolt Hole Diameter	6,5 / 0,25	mm/inch
Front Mount Baffle Cut-out	424 / 16,7	mm/inch
Rear Mount Baffle Cut-out	425 / 16,7	mm/inch
Depth	198 / 7,79	mm/inch
Volume occupied by the driver ⁶	6,5 / 0,23	liters/ft3

Shipping Information

Net Weight	15,2 / 33,4	Kg/Lbs Kg/
Shipping Weight	16,2 / 35,5	Lbs

Notes to Specifications

1 Program Power is defined as 3 dB greater than AES power. - 2 AES standard. - 3 Sensitivity measurement is based on a 500-2,5 kHz pink noise signal with input power of 2.83V @ 8 Ohms. - 4 Thiele-Small parameters are measured after a 2 hour warm up period running the loudspeaker at full power handling capacity. - 5 The maximum linear excursion is calculated as: (Hvc - Hg)/2 + Hg/4 where Hvc is the voice coil depth and Hg the gap depth. - 6 Calculated for front mounting on 18 mm thick board.