

WOOFER

L15P540

Professional Low Frequency Transducer

PART NUMBER **11165015**

- 3-inch, fibreglass inside-outside copper voice coil
- 1000 Watt continuous program power handling
- 98 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- Dual spider design with silicon based dampening control
- M-roll surround and exponential cone geometry

APPLICATIONS

The excellent linear response, well controlled down to 40 Hertz, makes the L15P540 especially suitable for horn-loaded applications, band-pass enclosures and small size bass reflex systems.

It is a very good solution for two or three way system when a very high BL and maximum punch is required.



40

2000

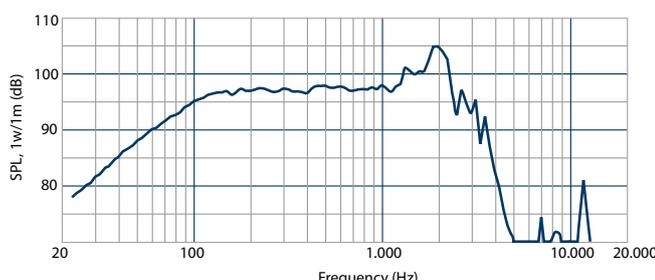
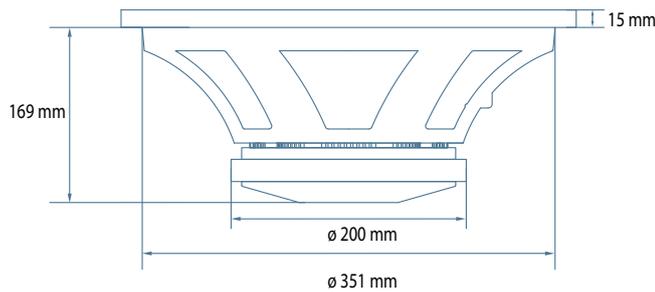
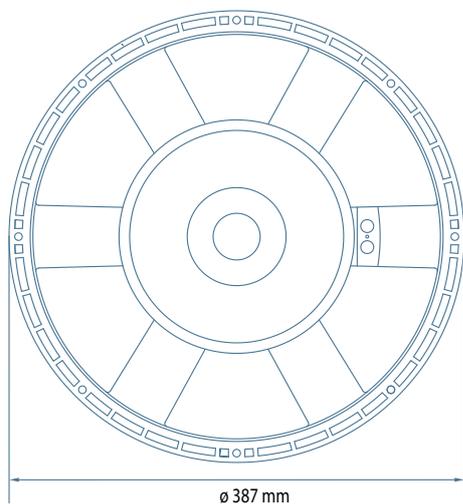
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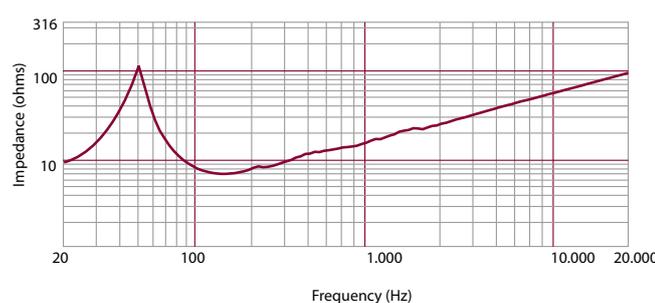
1.000

10.000

20.000



Frequency response curve of the loudspeaker taken in a hemispherical, free field environment and mounted in a closed box with an internal volume of 600 litres (21,2 cu.ft) enclosing the rear of the driver



Impedance magnitude curve measured in free air

GENERAL SPECIFICATIONS

Nominal Diameter	380/15	mm/inch
Rated Impedance	8	ohm
Program Power ¹	1000	Watts
Power handling capacity ²	500	Watts
Sensitivity ³	98	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	330/13	mm/inch
Max Excursion Before Damage (peak to peak)	36/1.4	mm/inch
Minimum Impedance	6.8	ohm
Voice Coil Diameter	76/3	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	18/0.7	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	10/0.4	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

THIELE - SMALL PARAMETERS ⁴

Resonance frequency	Fs	50	Hz
DC resistance	Re	5.6	ohm
Mechanical factor	Qms	9.7	
Electrical factor	Qes	0.41	
Total factor	Qts	0.39	
BL Factor	BL	21.4	T · m
Effective Moving Mass	Mms	106	gr
Equivalent Cas air load	Vas	100	liters
Effettive piston area	Sd	0.085	m ²
Max. linear excursion (mathematical) ⁵	Xmax	6.5	mm
Voice - coil inductance @ 1KHz	Le	1.5	mH
Half-space efficiency	Eff	2.94	%

MOUNTING INFORMATION

Overall Diameter	387/15.2	mm/inch
Bolt Circle Diameter	371/14.6	mm/inch
Bolt Hole Diameter	6.5/0.3	mm/inch
Front Mount Baffle Cut-out	352/13.9	mm/inch
Rear Mount Baffle Cut-out	360/14.1	mm/inch
Depth	169/6.65	mm/inch
Volume occupied by the driver ⁶	3.8/0.13	liters/ft3

SHIPPING INFORMATION

Net Weight	9.5/20.9	Kg/Lbs
Shipping Weight	10/22.0	Kg/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. The data are not binding; RCF reserves the right to modify the data at any time and without previous notice.