

MID-BASS

# L15/554K

Professional Low Frequency Transducer

Very high efficiency and good linearity are distinctive features of this mid-bass woofer. Kapton former voice coil, polycotton suspensions and treated cone guarantee the very high power handling of this transducer.

PART NUMBER **11160011**

- 4-inch, fibreglass inside-outside copper voice coil
- 1200 Watt continuous program power handling
- 99 dB Sensitivity
- 40 Hz - 2 kHz Frequency range
- M-roll damped surround
- Exponential damped cone
- Copper ring

## APPLICATIONS

The L15/554 is designed to be mounted in compact size bass reflex enclosures. The good combination of voice coil length, very low mass weight and suspensions control makes the L15/554 a very good choice for high power 2 way systems. Thanks to a very high BL/Re ratio, small mechanical depth and a strong cone, the L15/554 is a good solution for horn loaded or hybrid horn loaded systems.



40 2000

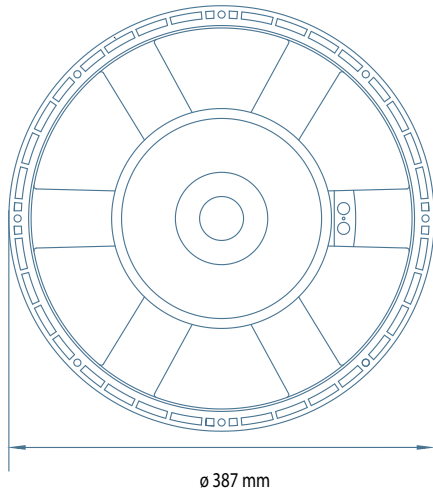
20

100

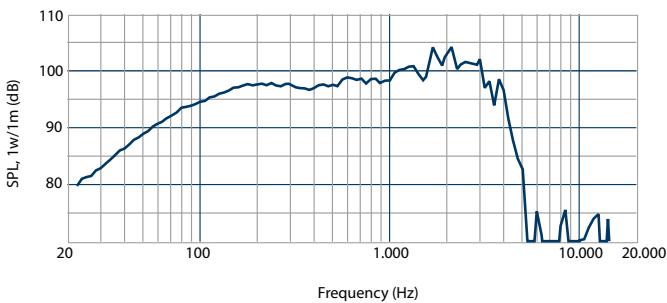
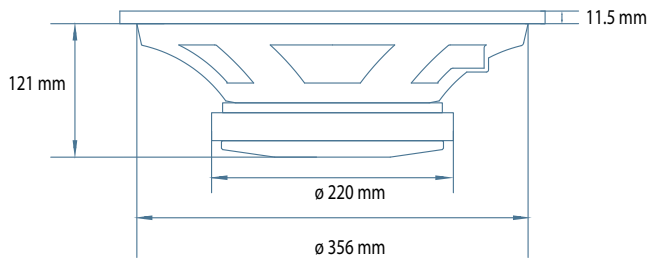
1.000

10.000

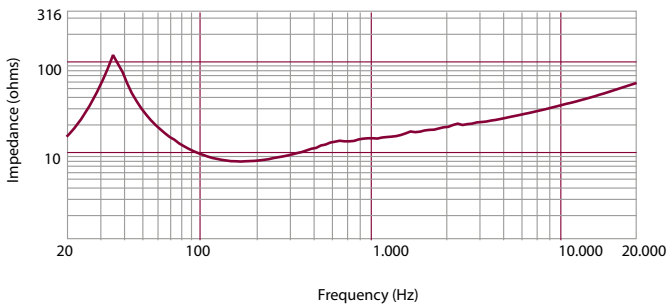
20.000



ø 387 mm



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 <sup>1</sup>	1200	Watts
Power handling capacity <sup>2</sup>	600	Watts
Sensitivity <sup>3</sup>	99	dB
Frequency Range	40 - 2000	Hz
Effective Piston Diameter	325/12.8	mm/inch
Max Excursion Before Damage (peak to peak)	44/1.73	mm/inch
Minimum Impedance	7.9	ohm
Voice Coil Diameter	100/4	mm/inch
Voice Coil Material	Copper	
Voice Coil Winding Depth	16/0.6	mm/inch
Number of layers	2	
Kind of layer	inside/outside	
Top Plate Thickness	9/0.35	mm/inch
Cone Material	No pressed pulp	
Cone Design	Curved	
Surround Material	Polycotton	
Surround Design	M - roll	

## THIELE - SMALL PARAMETERS <sup>4</sup>

Resonance frequency	Fs	35	Hz
DC resistance	Re	6.6	ohm
Mechanical factor	Qms	8.6	
Electrical factor	Qes	0.25	
Total factor	Qts	0.24	
BL Factor	BL	23	T · m
Effective Moving Mass	Mms	91	gr
Equivalent Cas air load	Vas	227	liters
Effettive piston area	Sd	0.083	m <sup>2</sup>
Max. linear excursion (mathematical) <sup>5</sup>	Xmax	5.8	mm
Voice - coil inductance @ 1KHz	Le	1	mH
Half-space efficiency	Eff	3.75	%

## 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	358/14.1	mm/inch
Rear Mount Baffle Cut-out	362/14.2	mm/inch
Depth	121/4.76	mm/inch
Volume occupied by the driver <sup>6</sup>	3.8/0.13	liters/ft3

## SHIPPING INFORMATION

Net Weight	11.3/24.9	Kg/Lbs
Shipping Weight	11.8/26.0	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.