CAR DIVISION



WPU1507 4Ω

Woofers de 15" with 4 ohms of impedance, of the professional type, developed to assist to the sound reinforcement needs in situations where smaller impredance provides larger transfer of potency of the amplifier for load (automotive sound), in the range of low and medium frequencies.

It is indicated for use in sound truck, sound outside of the car, mobile speaker system, besides conventional applications in night clubs and auditoriums. To reach a high acting degree and reliability, each component of the speaker was projected using advanced technology, and it has the characteristics above:

- Voice coil with 100 mm (4") of diameter, mold in fiberglass and uses copper thread covered with special varnish to support at high temperatures.
- Double spider make possible the perfect concentricity of the moving system, providing, like this, great linear excursion even when great displacements are demanded.
- The advanced design cast frame is injected in aluminum with great mechanical and structural sturdiness.
- The magnet assembly has an extended center polar piece to allow long excursion and low distortion in the bass frequency range.
- Metallic connectors, of easy handling and high pressure, guarantee a mechanical and electric contact of high reliability.
- The woofer has a cooling system MCS (Multi Cooling System) that allows a great dissipation of heat from the voice coil, guaranteeing the maximum of
- Cone and dust cap manufactured with QCF ® (Quartz Composite Fiber), exclusive Selenium technology, improve high resistence to humidity and UV radiation.



WPU1507 4Ω

QCF® (Quartz Composite Fiber): Selenium trademark

TECHNICAL SPECIFICATIONS			
Nominal diameter mr Nominal impedance			
Power handling			
MAX ¹	W		
RMS ²	W		
Sensitivity (1W@1m) dB			
Frequency response @ -10 dB			
Volume displaced by woofer			
Magnet weight			
Voice coil diameter mr	n (in)		

WPU1507
381 (15) 4
1,000 500 95 40 a 3,000 6.5(0.23) 3,400(119.92) 100(3.9) 10,200(22.48)

¹ Power handling specifications refer to normal speech and/or music program material, reproduced by an amplifier producing no more than 5% distortion. Power is calculated as true RMS voltage squared divided by the nominal impedance of the loudspeaker.

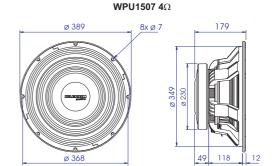
² Brazilian Standard NBR 10.303, with pink noise during 2 hours uninterrupted.

WPU1507 4O

THIELE-SMALL PARAMETERS	
Fs	
Qms	
Qts	
Vas	,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
Χmax)

	-				
A variation	of +	15%	ic ol	llowad	

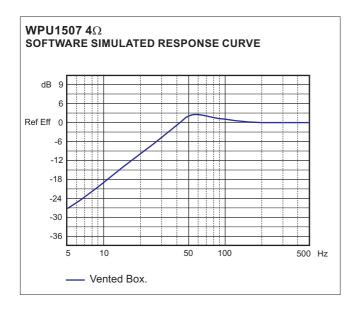
WPU1507
35
3.5
25.40
0.38
0.37
150(5.28)
1.9
0.0814(126.17)
346(21.11)
4.3(0.17)
16.0



CAR DIVISION



WPU1507 4 Ω



SUGGESTED ENCLOSURES CLOSED BOX VENTED BOX MODELS Internal Volume Duct (s) Internal Volume (liters) (liters) Qty Diam. x Lenght (cm) WPU1507 2 XX 75 10 x 11

The suggested enclosure volumes are related to only one speaker, including woofer and duct(s) displaced volume.

For enclosure with more than one speaker, it is necessary to multiply the suggested volume and duct(s) by the quantity os speakers and build them with separated chambers (internal division).

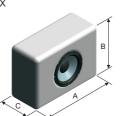
Box volumes considering the bass lift inside the car with closed apertures.

ENCLOSURES INTERNAL VOLUME CALCULATION INSTRUCTIONS

RECTANGULAR BOX

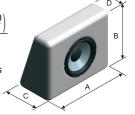
Internal Volume= $\frac{A \times B \times C}{1000}$

A, B and C are internal dimensions (in cm). The internal volume result is given in liters.



TRAPEZOID RECTANGULAR BOX Internal Volume= $\frac{A \times B \times \left(\frac{C+D}{2}\right)}{1000}$

A, B, C and D are internal dimensions (in cm). The internal volume result is given in liters.



Code: NA

Rev.: 00 - 02/09