

The Matador line offers 12" and 15" subwoofers specially developed to reproduce the lowest frequencies on the sound spectrum, i.e, the sub-bass frequencies range and to resist 1200W RMS power with large cone linear displacement. It has dual voice coil with 4 ohms that can be configured to 8 ohms impendance (serie), 2 ohms impendance (parallel) or two four Ohms independent channels allowing a better usage on the amplifier.

In order to achieve a high performance level and liability, each component of the speakers has been designed based on the latest speaker technologies, presenting the following features:

- Magnet assembly optimized by the infinite elements, using a bumped back plate to allow large cone displacement at low frequencies and a extended T-yoke to minimaze the harmonic distortion and improve the heat dissipation.
- The reinforced steel frame provides the subwoofer with higher structural rigidity and has epoxi finishing.

 Long voice coil with TIL Bobine, using cooper wire covered by a special
- vernish to support high temperatures.
- The spyder made of impregnated Polycotton cloth, providing a better allignment to the excursion of the whole moving system and high stiffness, even when high displacements are required.
- The non-pressed paper cone is impregnated with special resines offering higher rigidity to the high mechanical effords and allowing higher allignment to the frequency response. Additionally to it, also has a shinning superficial black treatment providing an excellent finishing.
- The surround is made of nytrilic rubber and it is attached to the cone with double line stiching, guaranteeing its attachment.
- The dust cap is made of polypropylene (High Density Polymer) shows an agressive visual label.
- The gasket is made of rubber envolves the basked, providing a better sealing to the product in the accustic box.
- The magnet assembly cover is made of polypropylene giving high strengh to the product





12SW10A DVC

15SW10A DVC

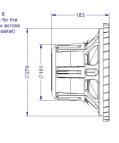
12SW10A DVC

TECHNICAL SPECIFICATIONS		
Nominal diameter	m (in)	
Nominal impedance	. ,	
Power handling		
MAX ¹	W	
RMS ²	W	
Sensitivity (1W@1m) dE		
Frequency response @ -10 dB		
Volume displaced by woofer		
Magnet weight		
Voice coil diameter m		
Net weight	g (Ib)	

12SW10A DVC	15SW10A DVC
305 (12) 4 + 4	381 (15) 4 + 4
1,200 600 88 35 to 2,000 4.2 (0.15) 1,600 (56.4) 60 (2.36) 5,300 (11.7)	1,200 600 89 30 to 2,000 6.4 (0.23) 1,600 (56.4) 60 (2.36) 5,640 (12.43)

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.

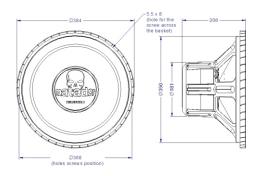
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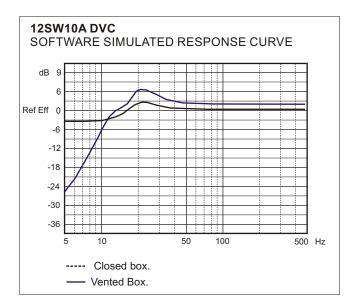
15SW10A DVC

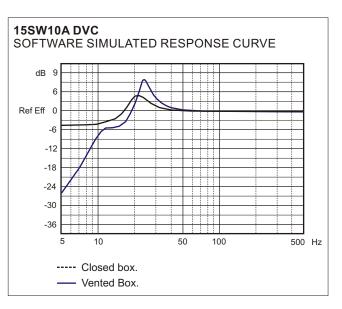
THIELE-SMALL PARAMETERS			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Qms. Qes			
Qts. Vas. I (ft³)			
Ref Eff % Sd m² (in²)			
Vd			
βl			

12SW10A DVC	15SW10A DVC
36	28
1.7	1.7
6.6	7.86
0.74	0.87
0.67	0.79
63.57 (2.24)	182.79 (6.45)
0.37	0.45
0.0519 (80.4)	0.0822 (127.4)
363 (22.1)	575 (35.1)
7,0 (0.27)	7.0 (0.27)
15.4	15.4









SUGGESTED ENCLOSURES CLOSED BOX VENTED BOX MODELS Internal Volume Duct (s) Internal Volume (liters) (liters) Diam. x Lenght (cm) Qty 12SW10A DVC 35 40 10 x 23 55 15SW10A DVC 50 2 10 x 22

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 of speakers and build them with separated chambers (internal division).

Box volumes considering the bass lift inside the car with closed

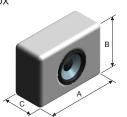
apertures.

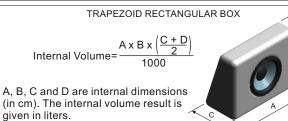
ENCLOSURES INTERNAL VOLUME CALCULATION INSTRUCTIONS



Internal Volume= AxBxC

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





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