MBQUART

ONYX owc254 / owc304

Thank you for choosing the MB Quart ONYX subwoofer for your car audio sound system. With proper installation, you are on the path to experiencing your music in a way you only imagined possible. Here at MB Quart, we call this "Sound In Every Detail."

The ONYX series subwoofers have been designed for the enthusiast looking for accurate bass and solid reliability in their woofer. The ONYX series subwoofers feature the following:

- Injection Molded Polypropylene Cone
- UV Resistant Butyl Rubber Surround
- 1.5" High Temp Voice Coil
- Red Nomex Spider

- Push & Insert Style Speaker Terminals
- Deep Drawn Stamp Steel Basket
- Heat-Dispersing Vented Pole Plate
- Anti-Resonant Magnet Cover



OWC254 / OWC304

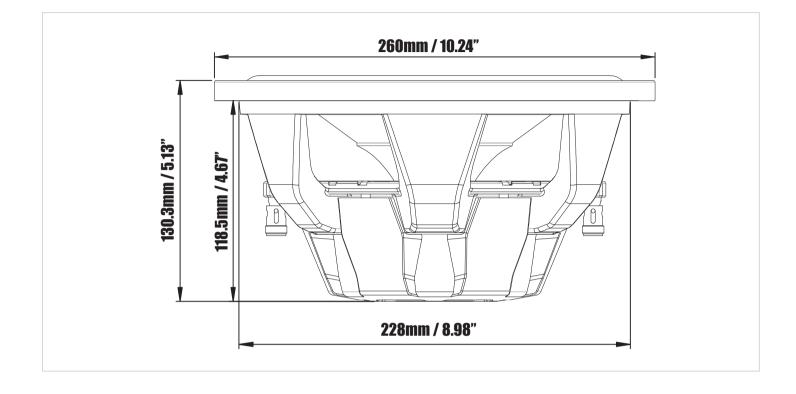


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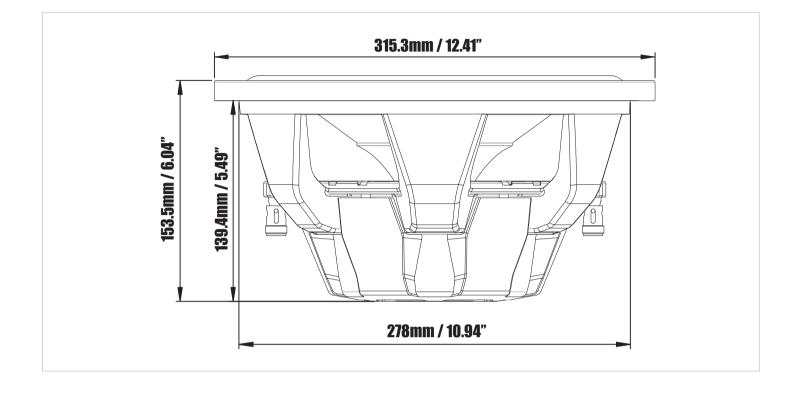


TECHNICAL DATA	ATA TECHNISCHE DATEN		CARACTÉRISTIQUES TECHNIQUES		
Power Rating: Impedance: Sensitivity: Frequency Response:	175-350 W DVC 4 ohms 83.96 dB (1W/1m) 35-250 Hz	Belastbarkeit: Impedanz: Empfindlichkeit: Übertragungsbereich:	175-350 W DVC 4 ohms 83.96 dB (1W/1m) 35-250 Hz	Puissance: Impédance: Rendement: Bande passante:	175-350 W DVC 4 ohmios 83.96 dB (1W/1m) 35-250 Hz
<u>COMPRISING:</u> 1 woofer	25.4 cm / 10"	<u>BESTÜCKUNG:</u> 1 woofer	25.4 cm / 10"	<u>EQUIPEMENT:</u> 1 woofer	25.4 cm / 10"
DATOS TÉCNICOS DATI TECNICI		DATI TECNICI		Технические Данные	
Carga admisible: Impedancia: Potencia de servicio:	175-350 W DVC 4 ohmios 83.96 dB (1W/1m)	Potenza: Impedenza: Sensibilità:	175-350 W DVC 4 ohmios 83.96 dB (1W/1m)	Нагрузочная способность Импеданс: Рабочая мощность:	: 175-350Вт DVC 4 ом 83.96 дБ (1Вт/1м)
Campo de transmisión:	35-250 Hz	Risposta in frequenza:	35-250 Hz	Диапазон передачи:	35-250 Гц

Subject to technical changes · Technische Änderungen vorbehalten · Sous réserve de modifications techniques · Ci si riservano modifiche tecniche Reservados los cambios técnicos · Производитель оставит за собой право на технические изменения



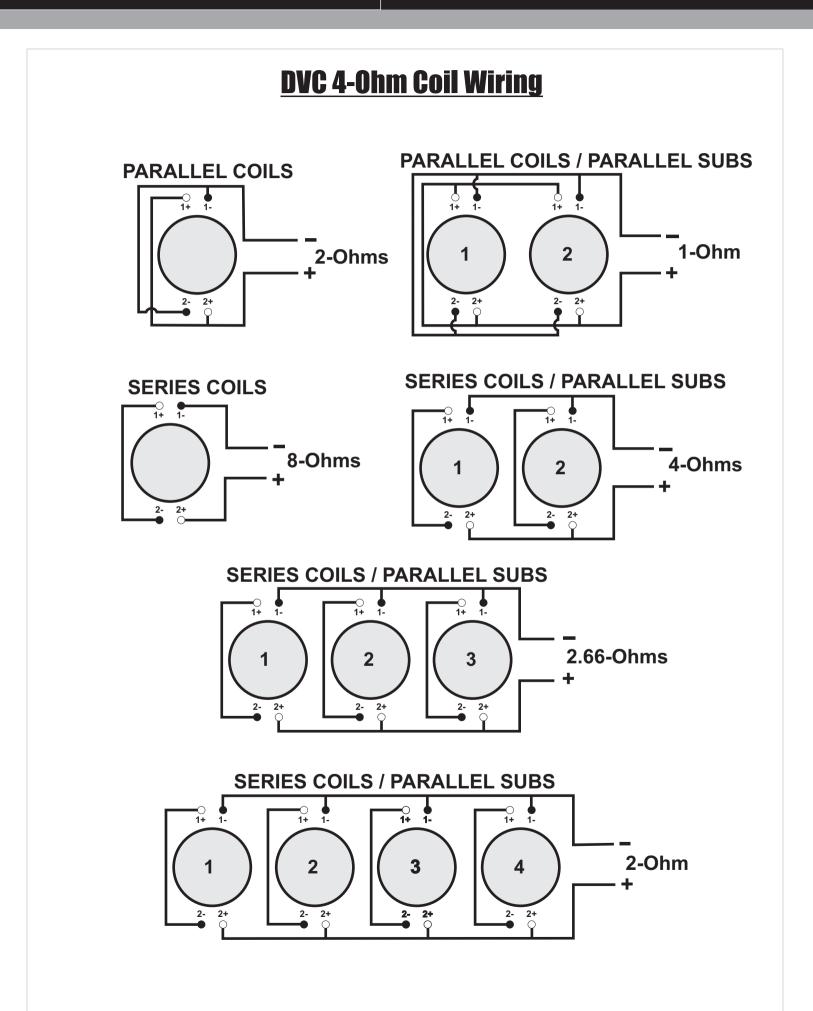




TECHNICAL DATA		TECHNISCHE DATEN		CARACTÉRISTIQUES TECHNIQUES	
Power Rating: Impedance: Sensitivity: Frequency Response:	175-350 W DVC 4 ohms 84.6 dB (1W/1m) 35-250 Hz	Belastbarkeit: Impedanz: Empfindlichkeit: Übertragungsbereich:	175-350 W DVC 4 ohms 84.6 dB (1W/1m) 35-250 Hz	Puissance: Impédance: Rendement: Bande passante:	175-350 V DVC 4 ohmio 84.6 dB (1W/1m 35-250 H
<u>COMPRISING:</u> 1 woofer	30.48 cm / 12"	<u>BESTÜCKUNG:</u> 1 woofer	30.48 cm / 12"	<u>EQUIPEMENT:</u> 1 woofer	30.48 cm / 12
DATOS TÉCNICOS DATI TECNICI		Технические Данные			
Carga admisible: Impedancia: Potencia de servicio: Campo de transmisión:	175-350 W DVC 4 ohmios 84.6 dB (1W/1m) 35-250 Hz	Potenza: Impedenza: Sensibilità: Risposta in frequenza:	175-350 W DVC 4 ohmios 84.6 dB (1W/1m) 35-250 Hz	Нагрузочная способность: Импеданс: Рабочая мощность: Диапазон передачи:	175-350В DVC 4 ог 84.6 дБ (1Вт/1м 35-250 Г
<u>EQUIPAMIENTO:</u> 1 woofer	30.48 cm / 12"	<u>DOTAZIONE:</u> 1 woofer	30.48 cm / 12"	<u>Оснащение:</u> 1 woofer	30.48 cm / 12

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ONYX SEF	RIES SUBWO	OFERS	
ELECTRICAL	OWC254	OWC304	
WIRING	Series	Series	
NomZ	8.232	8.16	Ohm
Sd	0.0346	0.0522	sqM
Revc	6.86	6.8	Ohm
BL	9.807	9.734	TxM
Vas	57.22	99.286	Liters
Cms	335.9	255.83	uM/N
Mms	77.27	107.6	Grams
Fo	31.42	30.37	Hz
Qms	2.891	3.29	
Qes	1.087	1.475	
Qts	0.79	1.015	
no	0.157	0.1817	%
SPL@1W	83.96	84.6	dB
SPL@2.83W	84.79	85.45	dB
Xmax/Over Hang	6.7	6.7	mm
Xmech/Suspension	13.4	13.4	mm
RMS	175	175	Watts
PEAK	350	350	Watts
	Tight Bass-Sma	Des Services	0000 de de 5020
Box Volume	0.75	1.25	Cubic Feet
Qtc	1.45	1.85	
F3	43	41	Hz
	DESIGNS (ROUI		
2	Tight Bass-Sma		1
Box Volume	1.2	1.8	Cubic Feet
Fb	45	44	Hz
Round Port Size	3	4	Inches
Port Length	6	7.5	Inches
F3	39	39	Hz
	nd Quality-Flat R		
Box Volume	1.75	2.5	Cubic Feet
Fb	44	42	Hz
Slot Port Size (Inches)	10 x 1.5	12.5 x 2	Inches
Port Length (Inches)	12.75	18	Inches
=3	36	37	Hz
FEATURES ARE SUB NOTE: All above box volumes are internal v			nort displacement
Volume listed represen			
The F3 value represents the -3d			



SUBWOOFER INSTALLATION DIRECTIONS

Enclosure Materials

Typically, 5/8" or 3/4" MDF (Medium Density Fiber Board) is best for most applications. 3/4" MDF is recommended.

Enclosure Build Materials

Connecting joints need to be glued and screwed to ensure no air escapes and joints do not separate under high pressure. Mitered and rabbit joints also help to ensure the enclosure joints are secure.

Bracing

Internal bracing is also recommended to prevent flexing and to strengthen the enclosure.

Note: The volume taken up by the bracing should be added to the total enclosure interior volume.

There are two common bracing methods.

1. Corner Bracing: These help prevent the connection joints from separating under heavy vibration and air pressure. Use 1" x 1" MDF at all interior joints

2. Diagonal Bracing: These internal braces connect the top side to the bottom side as well front side to back side. This prevents the wood from bowing or pushing outwards.

Use 1" x 2" with 1" surface contact that is glued and screwed.



Glossary of Terms

- Q The energy losses of relative damping (ratio of stored to dissipated energy or ratio of reactive to resistive energy).
- Fs Free air resonance of driver in Hz.

Qms Mechanical Q.

Vas Volume of air equivalent to driver from the rest position.

Cms Mechanical compliance of a loud speaker piston.

Mms Moving mass of total loud speaker piston assembly.

Xmax The maximum linear excursion of a loud speaker.

Sd Surface area of the cone.

- Dia The piston diameter of a loud speaker.
- Qes Electrical Q of a system.
- **Re DC resistance.**
- Le VC inductance.
- Pe Maximum input power.

Qts Total Q of the system.

Sens Sensitivity. An efficiency measurement in dB's.

- Vc Volume of a closed or sealed enclosure
- Vb Volume of a vented enclosure.
- Fc The resonant frequency of a closed or sealed system
- Fb The resonant frequency of a vented system
- F3 The half-power (-3dB) frequency of a loud speaker enclosure
- Qtc The Q of a loud speaker at Fc in a closed box, considering both it's electrical and mechanical resistance.
- QL The Q of a vented box, resulting from all box losses.
- DV Diameter of vent.
- LV Length of vent.
- H Height.
- W Width.
- D Depth

MBQUART

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Maxxsonics Limited Warranty

As the manufacturer of Maxxsonics, Autotek, Crunch, MB Quart and Hifonics car audio products, Maxxsonics USA Inc. Warrants to the original consumer purchaser the amplifier to be free from defects in material and workmanship for one (1) Year from date of purchase.

All other parts and accessories of the system are warrantied to be free from defects in material and workmanship for one (1) year from date of purchase. Maxxsonics will repair or replace at it's option and free of charge during the warranty period, any system component that proves defective in materials and workmanship under normal installation, use and service provided that the product is returned to the authorized Maxxsonics dealer from where it was purchased. A photo copy of the original receipt must accompany the product being returned.

Valid purchase receipts will contain the name and address of the authorized reseller.

Any damage to the product as a result of misuse, abuse, accident, incorrect wiring, improper installation, alteration of date code or bar code labels, revolution, natural disaster, or any sneaky stuff because someone messed up, repair or alteration out side of our factory or authorized service centers and any thing else you have done that you should not have done is not covered.

This warranty is limited to defective parts and specifically excludes any incidental or consequential damages connected therewith. This warranty is not to be construed as an insurance policy.

Warranty on installation labor, removal, re-installation and freight charges are not the responsibility of Maxxsonics USA Inc.

Warranty products damaged as a result of insufficient or improper packing materials are not covered by this limited warranty and such damaged product will be returned "as is" at the expense of the owner.

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