

Focal PS165V1

Focal PS165V1 6.5-inch 2-Way Component Kit Instruction Manual

Model: PS165V1

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Focal PS165V1 6.5-inch 2-Way Component Kit. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your product. The Focal PS165V1 kit is designed to deliver high-fidelity audio in automotive environments, featuring a Polyglass cone woofer and an inverted dome tweeter for precise sound reproduction.

2. SAFETY INSTRUCTIONS

- **Professional Installation Recommended:** Due to the complexity of car audio systems, professional installation is highly recommended to prevent damage to the product or vehicle.
- **Disconnect Battery:** Always disconnect the vehicle's negative battery terminal before beginning any electrical work to prevent short circuits and electrical hazards.
- **Proper Wiring:** Use appropriate gauge wiring for all connections. Ensure all connections are secure and properly insulated to prevent shorts and signal loss.
- **Avoid Water and Moisture:** Do not expose the speakers or crossover networks to water or excessive moisture.
- **Hearing Protection:** Prolonged exposure to high volume levels can cause permanent hearing damage. Use caution when adjusting volume.
- **Secure Mounting:** Ensure all components are securely mounted to prevent them from becoming loose during vehicle operation, which could cause injury or damage.

3. PACKAGE CONTENTS

Verify that all items are present in your Focal PS165V1 component kit:

- Two (2) 6.5-inch (16.5 cm) Woofers
- Two (2) Inverted Dome Tweeters

- Two (2) Passive Crossover Networks
- Mounting Hardware (screws, clips, grilles)
- User Manual (this document)



Figure 3.1: Complete Focal PS165V1 6.5-inch 2-Way Component Kit, including woofers, tweeters, and passive crossovers.

4. SETUP AND INSTALLATION

Careful installation is crucial for optimal sound performance. Plan your installation thoroughly before beginning.

4.1. Component Overview

- **Woofer:** The 6.5-inch (16.5 cm) woofer handles mid-bass and midrange frequencies. It features a Polyglass cone for rigidity and an aluminum chassis.
- **Tweeter:** The inverted dome tweeter reproduces high frequencies with precision.
- **Crossover Network:** This passive component separates the audio signal, sending appropriate frequencies to the woofer and tweeter.



Figure 4.1: Front view of the Focal PS165V1 woofer, showcasing its Polyglass cone and robust design.



Figure 4.2: The Focal PS165V1 inverted dome tweeter, designed for clear high-frequency reproduction.

4.2. Mounting the Woofers

Select a suitable location in your vehicle, typically the factory speaker locations in the doors. Ensure there is sufficient depth and clearance for the woofer and its magnet structure. Use the provided mounting hardware to secure the woofers firmly. Consider sound deadening for door panels to enhance acoustic performance.



Figure 4.3: Rear view of the Focal PS165V1 woofer, illustrating its sturdy aluminum basket and magnet assembly.

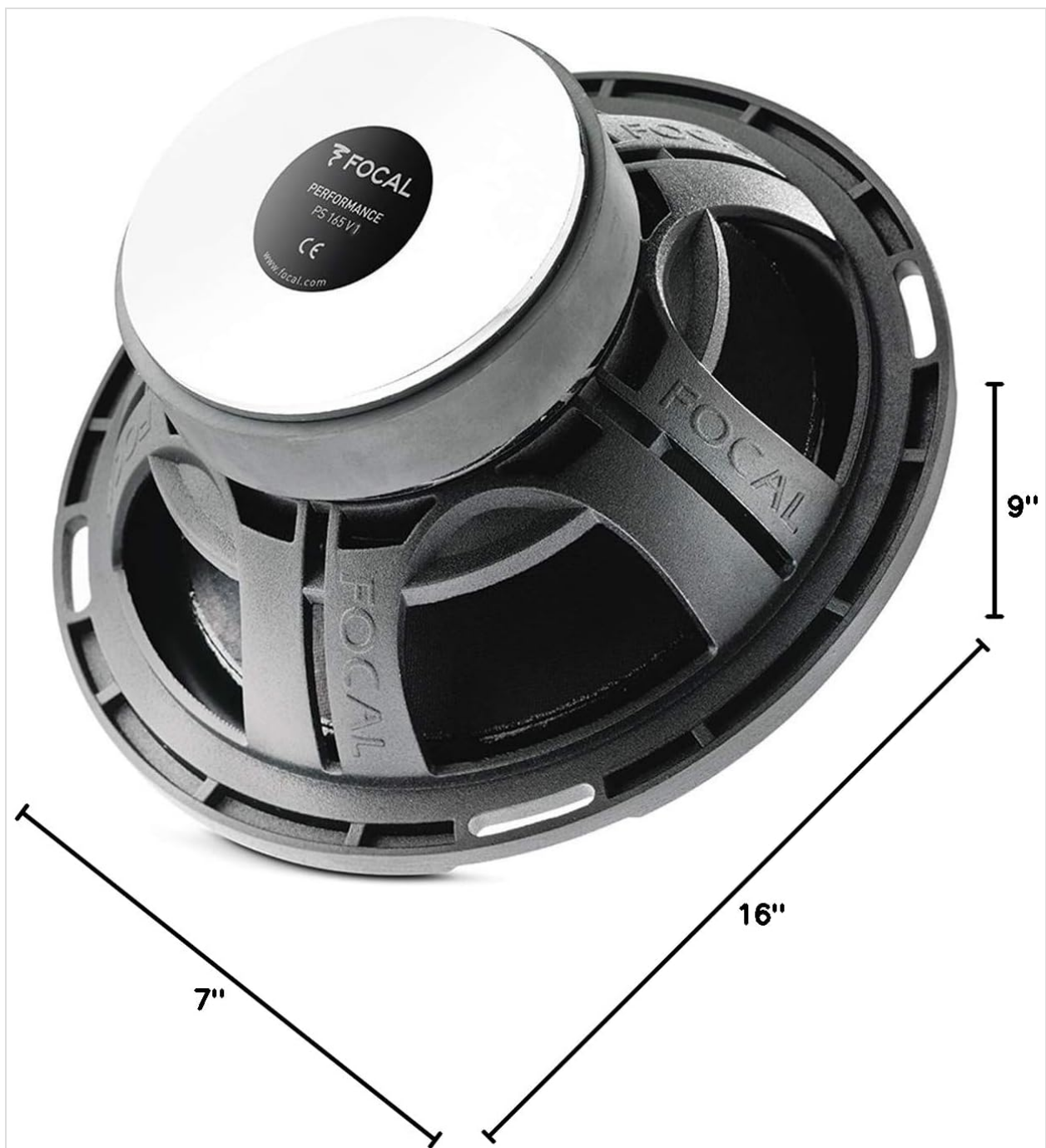


Figure 4.4: Dimensional view of the Focal PS165V1 woofer, showing its 6.5-inch size and mounting depth.

4.3. Mounting the Tweeters

Tweeter placement significantly impacts sound staging. They can be flush-mounted or surface-mounted. Aim the tweeters towards the listening position for optimal sound. Ensure they are securely installed and do not obstruct airbags or other safety features.

4.4. Crossover Network Installation and Wiring

The passive crossover network must be installed in a dry, accessible location, away from heat sources. Connect the amplifier output to the 'INPUT' terminals of the crossover. Connect the woofer to the 'WOOFER' terminals and the tweeter to the 'TWEETER' terminals. Observe correct polarity for all connections (+ to + and - to -).

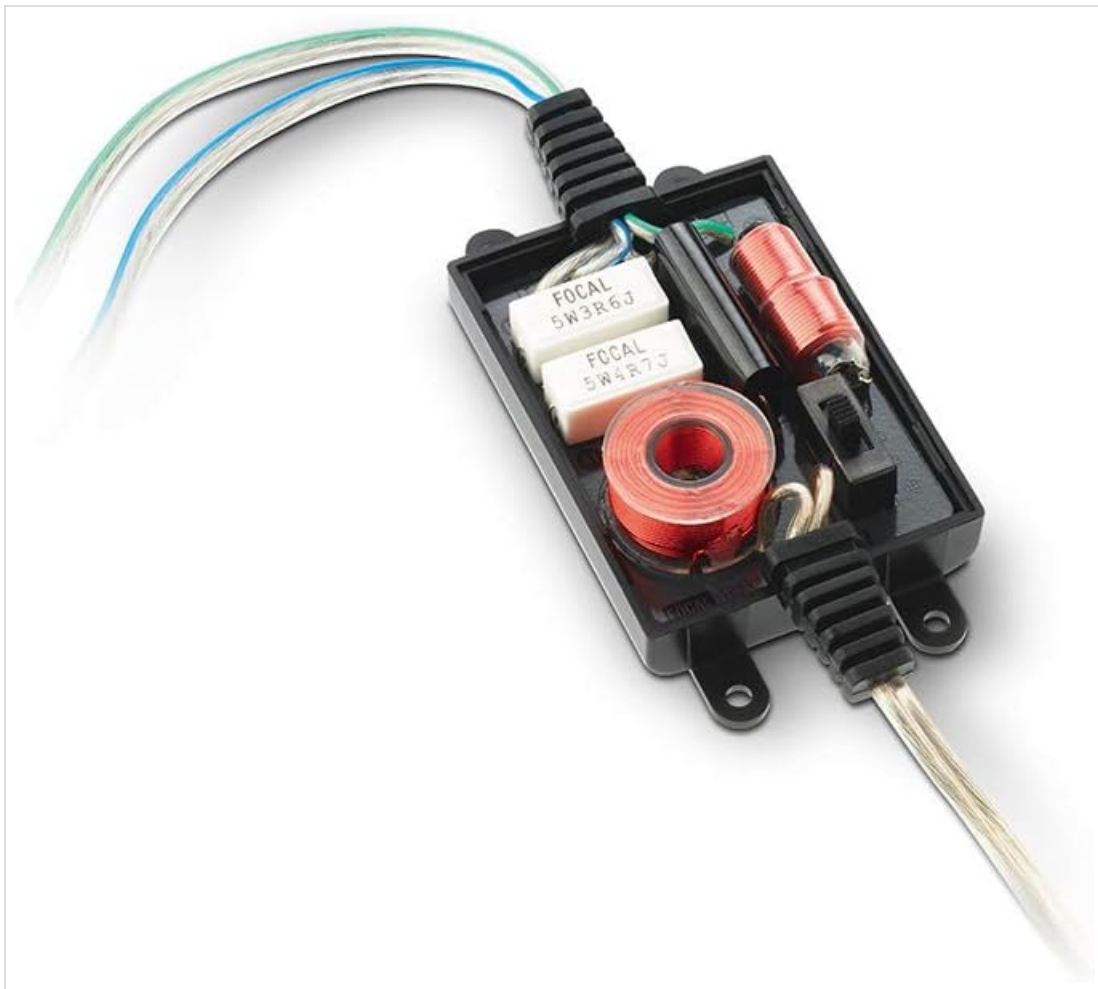


Figure 4.5: The Focal PS165V1 passive crossover network, illustrating its connection points for amplifier, woofer, and tweeter.

4.5. Amplifier Connection

The Focal PS165V1 kit requires an external amplifier for optimal performance. Connect the output of your amplifier to the input of the passive crossover network. Ensure the amplifier's power output matches the speaker's nominal power handling (80W RMS) to prevent damage and achieve clear sound.

5. OPERATING INSTRUCTIONS

Once installed, proper tuning of your audio system will maximize the performance of your Focal PS165V1 speakers.

5.1. System Tuning

Adjust the gain settings on your amplifier according to the output voltage of your head unit. Avoid setting the gain too high, as this can introduce distortion. Utilize the equalizer functions on your head unit or external processor to fine-tune the sound to your preference. Start with flat EQ settings and make small adjustments.

5.2. Crossover Adjustments

The passive crossover network for the tweeters may offer adjustable settings for attenuation (e.g., +0 dB, -3 dB, -6 dB) and potentially different crossover frequencies. Experiment with these settings to achieve the desired balance between the tweeter and woofer output, and to match the acoustics of your vehicle.

5.3. Break-in Period

Allow a break-in period of several hours of normal use for the speakers to reach their optimal performance. During this time, the speaker components will loosen and settle, resulting in improved sound quality.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to gently wipe the speaker cones and grilles. Avoid using harsh chemicals or abrasive cleaners.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they remain secure and free from corrosion.
- **Environmental Protection:** Protect the speakers from extreme temperatures and direct sunlight, which can degrade materials over time.

7. TROUBLESHOOTING

If you encounter issues with your Focal PS165V1 component kit, refer to the following common problems and solutions:

- **No Sound from Speakers:**
 - Check all wiring connections from the amplifier to the crossover and from the crossover to the speakers.
 - Verify the amplifier is powered on and receiving a signal from the head unit.
 - Ensure the head unit is functioning correctly and outputting audio.
- **Distorted Sound:**
 - Reduce the amplifier gain setting.
 - Check for proper impedance matching between speakers and amplifier.
 - Ensure speaker wires are not shorting or touching the vehicle's chassis.
 - Lower the volume level on the head unit or amplifier.
- **Poor Sound Quality / Lack of Bass:**
 - Verify woofers are securely mounted and sealed in their enclosures (e.g., door panels) to prevent air leaks.
 - Check crossover settings for proper frequency distribution.
 - Ensure correct polarity for all speaker connections.
 - Consider adding sound deadening to the vehicle doors.

8. SPECIFICATIONS

Key technical specifications for the Focal PS165V1 6.5-inch 2-Way Component Kit:



Feature	Specification
Model Name	PS165V1
Speaker Type	Component
Woofer Diameter	6.5 Inches (16.5 Centimeters)
Tweeter Diameter	2.54 Centimeters
Nominal Power (RMS)	80 Watts

Feature	Specification
Maximum Power	160 Watts
Sensitivity	92.5 dB
Impedance	4 Ohm
Surround Sound Channel Configuration	2.0
Product Dimensions	17"D x 15.25"W x 9.75"H
Item Weight	7.7 pounds (3.5 Kilograms)
Manufacturer	Focal
UPC	033172721565, 801365480144, 803654012067

9. WARRANTY AND SUPPORT


Focal products are covered by a limited warranty. For detailed warranty information, terms, and conditions, please refer to the warranty card included with your product or visit the official Focal website. For technical support, troubleshooting assistance, or service inquiries, please contact your authorized Focal dealer or the Focal customer support team.

Related Documents - PS165V1

	<p>Focal Littora 200 Outdoor Speakers: User Manual & Specifications</p> <p>Discover the Focal Littora 200 series of outdoor speakers (OD Stone 8, OD Sat 5, OD Sub 12). This user manual provides essential guidance on installation, connections, specifications, and safety for high-fidelity outdoor audio experiences, featuring IP55 durability.</p>
	<p>Focal PC 165 SF PS 165 SF User Manual and Specifications</p> <p>User manual and technical specifications for Focal PC 165 SF and PS 165 SF car speakers, featuring Slatefiber cones and high-efficiency design.</p>

	<p>Focal T3Y Series Car Speakers: User Manual, Specifications, and Installation Guide</p> <p>Comprehensive user manual, technical specifications, and installation guide for the Focal T3Y series car speakers, including IW T3Y 200, ICC T3Y 100, IS T3Y 100, and IC T3Y 100. Features safety instructions, product details, and compatibility information.</p>
	<p>Focal FLAX EVO™ Car Speaker Systems: User Manual & Specifications</p> <p>Explore the Focal FLAX EVO™ series car audio speakers with this comprehensive guide. It includes user manuals, installation instructions, safety guidelines, and detailed technical specifications for models like PS 165 FE, PS 165 FSE, and more. Learn about Focal's 'Listen Beyond' philosophy and product features.</p>
	<p>Focal K2 Power Series Car Audio Speakers and Subwoofers: Quick Start & User Manual</p> <p>Quick start guide and user manual for Focal K2 Power car audio speakers and subwoofers. Includes installation, wiring, adjustments, safety, and technical specifications for models like ES 100 KE, ES 165 KE, SUB 25 KXE, and more.</p>
	<p>Focal K2 Power Car Audio Speakers & Subwoofers: User Manual and Specifications</p> <p>Comprehensive guide for Focal K2 Power car audio components, including ES 100 KE, ES 165 KE, ES 165 KX2E, ES 165 KX3E, ES 165 K2S, and subwoofers. Features installation, technical specs, and safety information.</p>

Documents - Focal – PS165V1



Focal F-PS165

Indeks: 549019 Producent: Focal Kod producenta: PS165V1

Cena: 1,016.72 zł

Opis

Focal F-PS165

Producent: Focal

Focal F-PS165 to 2-drony głośnik komponentowy o imponujących parametrach. Pasmo częstotliwości od 60 Hz do 20 kHz zapewnia klarowne brzmienie w całym zakresie dźwięku. Z impedancją 4 ohm i czułością 90 dB, ten głośnik gwarantuje doskonały i przystępny tematyczny dźwięk. Moc znamionowa wynosi 60 W RMS, systemy wystarczająco prosty, aby do satysfakcjonującego odbioru. To idealny wybór dla miłośników wysokiej jakości dźwięku w samochodzie.

Głośnik Focal F-PS165 to nie tylko doskonałe brzmienie, ale także solidna konstrukcja. Z zaawansowanymi technologiami i zaawansowanymi wykonaniami, Focal zapewnia niezawodność i trwałość produktu. Dzięki 2-drony głośnikowi komponentowemu o średnicy 165 mm, można cieszyć się niesamowitą czystością i siłą dźwięku. Niezależnie od głośnika muzycznego, Focal F-PS165 dostarczy Ci go w każdym samochodzie.

Focal F-PS165 to głośnik, który stoi na wysokości poziomu wieloletnich akcesoriów samochodowych. Jako marka uznana za innowacyjność, jakość dźwięku, Focal dostarcza produkt, który spełnia oczekiwania nawet najbardziej wymagających klientów. Dzięki doskonałemu połączeniu designu, technologii i brzmienia, Focal F-PS165 to gwarancja satysfakcji dla każdego miłośnika muzyki w samochodzie.

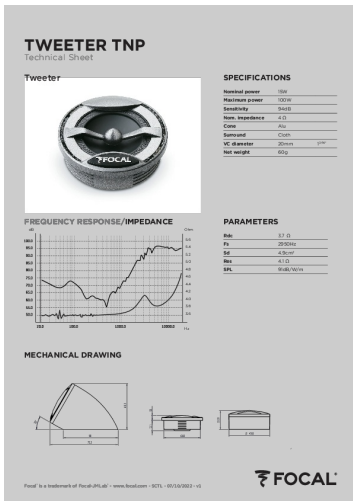
- 2-drony głośnik komponentowy 165 mm
- Pasmo częstotliwości 60 Hz - 20 kHz
- Impedancja znamionowa 4 ohm
- Czułość 90 W RMS w 165 dB
- Moc znamionowa 60 W RMS
- Impedancja 4 ohm
- Konfiguracja kanałów dźwięku przestrzennego 2.0
- Waga produktu 0,15 kg
- Liczba elementów 2
- Nazwa modelu F-PS165
- punkt złącza wyprawkowa 2-drony głośnik komponentowy 165 mm, Pasmo częstotliwości 60 Hz - 20 kHz, impedancja znamionowa 4 ohm, Czułość 90 W RMS w 165 dB, Moc znamionowa 60 W RMS
- marka Focal
- ogólne składowe akcesoria samochodowe: głośnik samochodowy 165 mm, głośnik stereo elektroniczny PS165V1, kabelki samochodowe elektroniczne
- zarejestrowane przepisy identyfikacji produktu: 03312721265, 03313545014, 03316401200, 0344037700128, 03312721265, 03313545014, 03316401200
- adresowe zastrzeżenia producenta: Dla informacji o miejscu
- numer części: F-PS165V1

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Focal F PS165 Sklep internetowy stylem pl focal f ps165 549019 upload files product |||

Focal F-PS165 Indeks: 549019 Producent: Focal Kod producenta:**PS165V1** Cena: 1,016.72 zł Opis Focal F-PS165 Producent: Focal Focal F-PS165 to 2-drony głośnik komponentowy o imponujących parametrach. Pasmo częstotliwości od 60 Hz do 20 kHz zapewnia klarowne brzmienie w całym zakresie dźwięku. Z impedancją 4 ...

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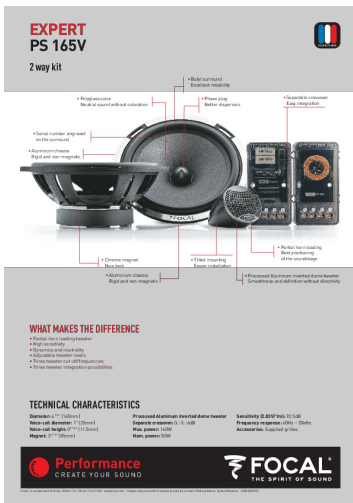


[pdf] Specifications Tech Sheet

Technische Daten Hochtöner PS165V1 LAST FOCAL FT TNP ampire de focal |||

TWEETER TNP Technical Sheet Tweeter SPECIFICATIONS Nominal power 15W
Maximum power 100W Sensitivity 94dB Nom. impedance 4 Cone Alu Surround Cloth
VC diameter 20mm 13/16 Net weight 60g FREQUENCY RESPONSE/IMPEDANCE
dB Ohm 5.6 5.4 5.2 5.0 4.8 4.6 4.4 4.2 4.0 3.8 3.6 Hz MECHANI...

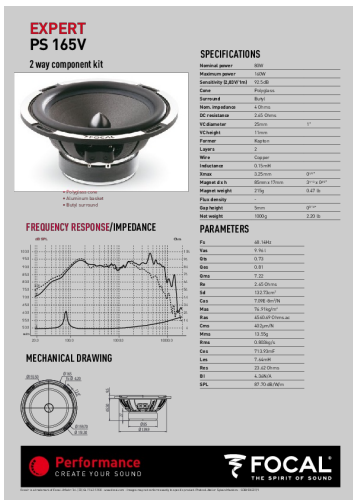
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[pdf] Guide Accessories

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EXPERT PS 165V 2 way kit Polyglass cone Neutral sound without coloration Serial
number engraved on the surround Aluminum chassis Rigid and non-magnetic Butyl
surround Excellent reliability Phase plug Better dispersion MADE IN FRANCE
Separable crossover Easy integration Chrome magnet Nice I...

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[pdf] Specifications

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EXPERT PS 165V 2 way component kit Polyglass cone Aluminum basket Butyl
surround FREQUENCY RESPONSE/IMPEDANCE dB SPL Ohm 100.0 95.0 90.0
85.0 80.0 30 75.0 0 70.0 65.0 60.0 55.0 50.0 Z auto 20.0 100.0 1000.0 104 94 84 74
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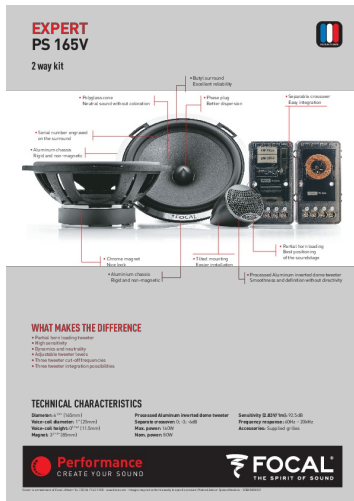
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[pdf] Accessories

EXPERT PS 165V Custom Sounds RG Sound WHAT MAKES THE DIFFERENCE Partial horn loading
tweeter High sensitivity Dynamics and neutrality Adjustable levels

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customsounds docs rgsound it prodotti atch

EXPERT PS 165V 2 way kit Polyglass cone Neutral sound without coloration Serial
number engraved on the surround Aluminum chassis Rigid and non-magnetic Butyl
surround Excellent reliability Phase plug Better dispersion MADE IN FRANCE
Separable crossover Easy integration Chrome magnet Nice I...

lang:en score:11 filesize: 1.03 M page_count: 1 document date: 2013-06-03