

SONANCE

PS-C83RWT

PROFESSIONAL SERIES IN-CEILING SPEAKER

PROFESSIONAL SERIES

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark insound quality and aesthetics for commercial environments.

Sonance Professional Series includes a range of In-Ceiling, Pendant and Surface Mount Speakers that deliver unequalled fidelity, extremely low distortion, wide dispersion and a smooth power response. The range also shares consistent voicing, ensuring seamless sonic integration when used together throughout a space.

The Sonance Professional Series PS-C83RWT In-Ceiling Woofer features a one-piece bezel-less grille that is magnetically secured and allows for a one-step painting process to simplify installation and minimize visual distraction.

The optional Square Grille Adapter allows speakers to match the aesthetic of square downlights and HVAC grilles to achieve continual sight lines.

An ultra-high-excursion 8" polypropylene woofer delivers effortless and impactful low bass extension and augmentation, at any sound pressure level.

The PS-C83RWT features a sealed metal enclosure, integrated cable and conduit clamping, removable Euroblock connector with loop-through, swing-open connector cover and seismic attachment. Additionally, the Sonance PS-C83RWT is certified for UL 1480 and UL 2043.

FEATURES AND BENEFITS

PERFORMANCE

- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised tonality
- Consistent voicing across product range

AESTHETICS

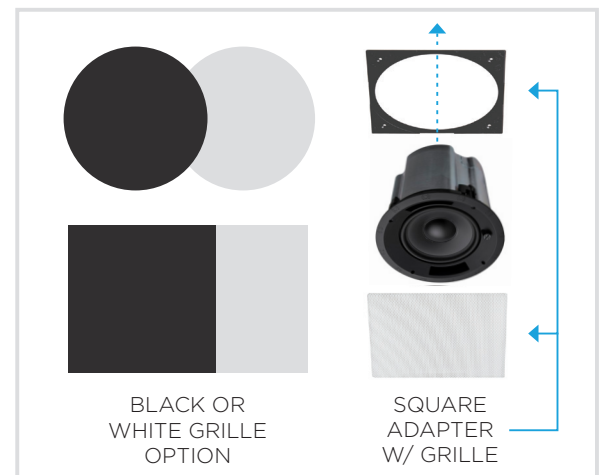
- Bezel-less design for clean and minimalistic aesthetic
- Optional Square Adapters to match light fixtures
- Optional black grilles in round or square

INSTALLATION

- Magnetic grille retention for fast installation and removal
- Finger-adjustable selector tap
- One-step simplified painting process
- Smallest in class form factor

APPLICATIONS

- Boardrooms & Corporate Offices
- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries & Museums
- Casinos, Convention Centers & Hotels
- Houses of Worship
- Educational Facilities



TECHNICAL SPECIFICATIONS

LOUDSPEAKER

Frequency Range (-10dB)	32Hz - 300kHz
Frequency Range (-3dB)	50Hz - 150kHz
Power Capacity	200 Watts Continuous Program Power 125 Watts Continuous Pink Noise
Nominal Sensitivity	89dB
Nominal Coverage Angle	180 degrees conical coverage
Directivity Factor (Q)	N/A
Directivity (DI)	N/A
Rated Maximum SPL	110dB @ 1 meter (3.3 feet) average, 116dB peak
Rated Impedance	8 Ohms nominal, 6 Ohms minimum
Transformer Taps	70V: 120W, 60W, 30W and 15W 100V: 120W, 60W and 30W
Crossover Point	150Hz
Overall Dimension	11.06" Diameter x 9.84" Depth (281mm x 250mm)
Cut Out Dimension	10.125" Diameter (257mm)
Net Weight	14.95 lbs (6.78kg) each
Shipping Weight	25.35 lbs (11.50kg) pair
Unit of Measure	Each
Grille	Supplied with bezel-less white grille, black grille optional



PS-C83RWT
SKU# 40133

TRANSDUCERS

LF Driver	8" (203mm) Polypropylene Cone, Butyl Rubber Surround
HF Driver	N/A

ENCLOSURE

Input Connectors	Four pin Euroblock with loop output connections
Knockouts	One, side mounted .75"
Safety Agency	UL 1480, UL 2043, NFPA 90A, NFPA 70
Maximum Ceiling Thickness	1.732" (44mm)
Suspension Points	One, on top surface

ACCESSORIES

INCLUDED ACCESSORIES

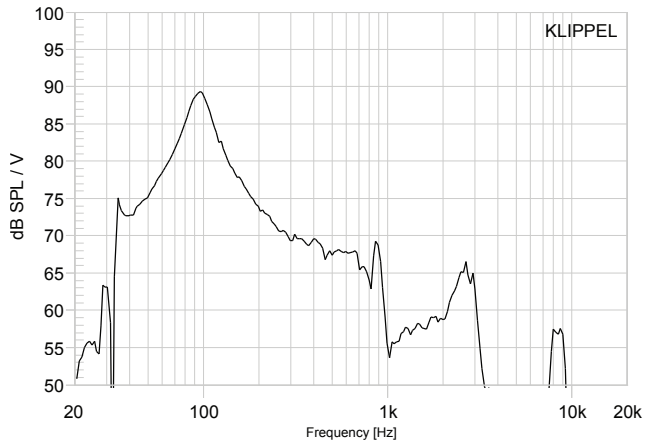
- C-Ring x 2
- Tile Support Rails x 2
- Cutout Template x 1
- Euroblock Connector x 1
- White Grille x 1

OPTIONAL ACCESSORIES

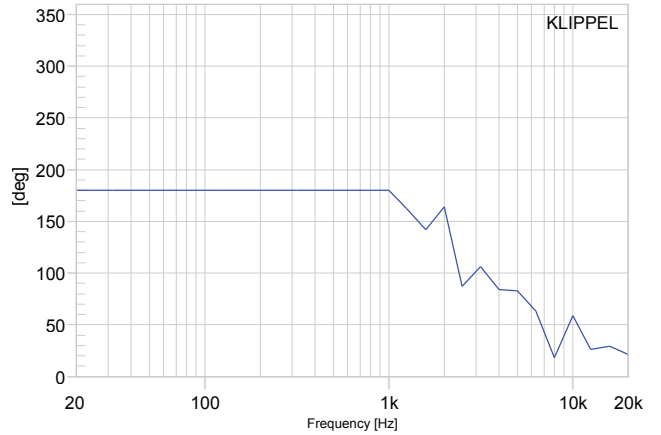
- Replacement Round Grille White (1 pair) | 40154
- Round Grille Black (1 pair) | 40157
- Square Adaptor w/ Grille White (5 pair) | 40160
- Square Adaptor w/ Grille White (1 pair) | 45160
- Square Adaptor w/ Grille Black (5 pair) | 40163
- Square Adaptor w/ Grille Black (1 pair) | 45163
- Flex Bracket (5 pair) | 92247
- Metal Pre-construction Bracket (3 pair) | 40125
- Tile Support Rails w/ C-Ring (1 pair) | 40174
- Replacement RotoLock Feet (Bag) | 40175

PERFORMANCE MEASUREMENTS

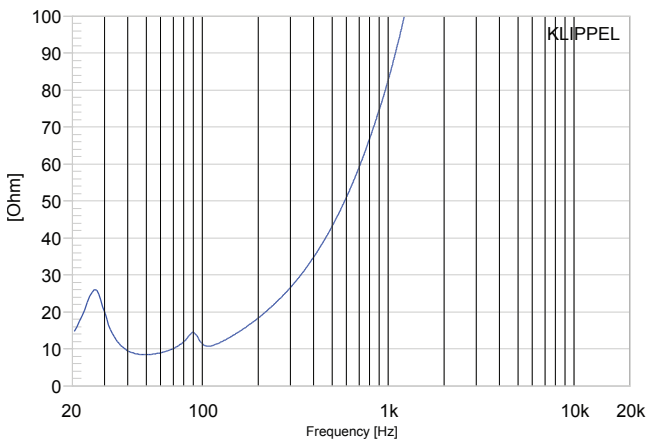
1 METER ON AXIS FREQUENCY RESPONSE



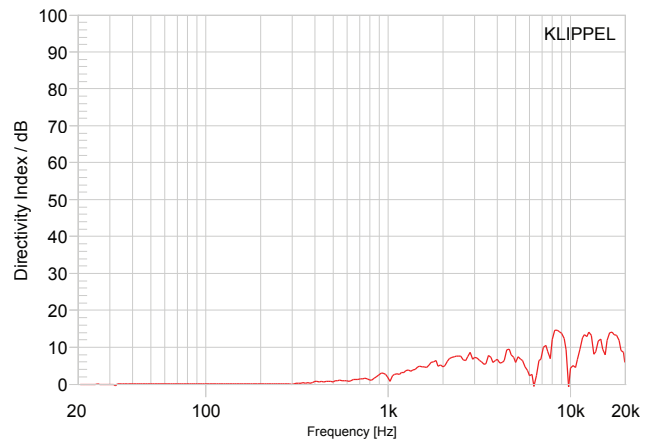
BEAMWIDTH VS FREQUENCY



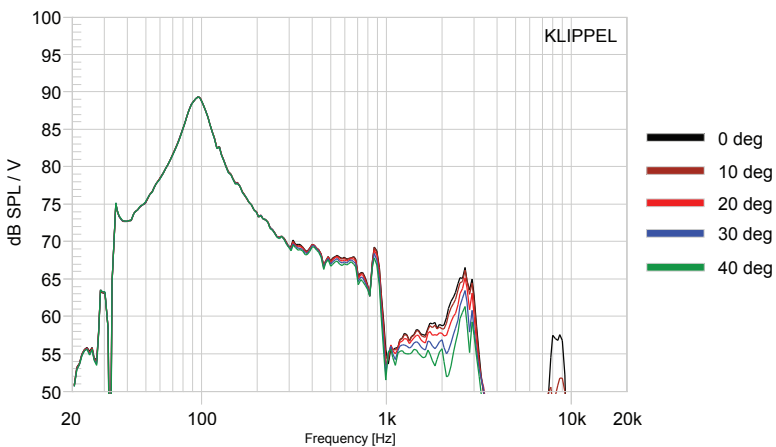
IMPEDANCE VS FREQUENCY



DIRECTIVITY INDEX VS FREQUENCY

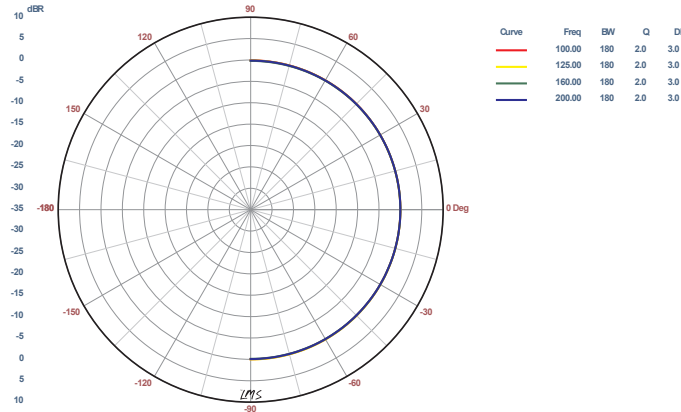


1 METER HORIZONTAL FREQUENCY RESPONSE

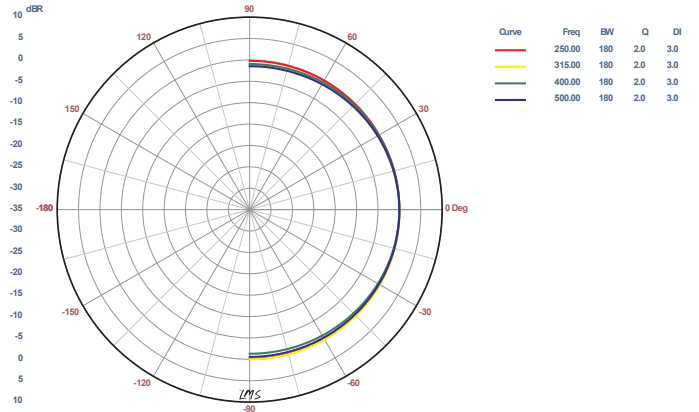


POLAR PLOTS (1/3 OCTAVE)

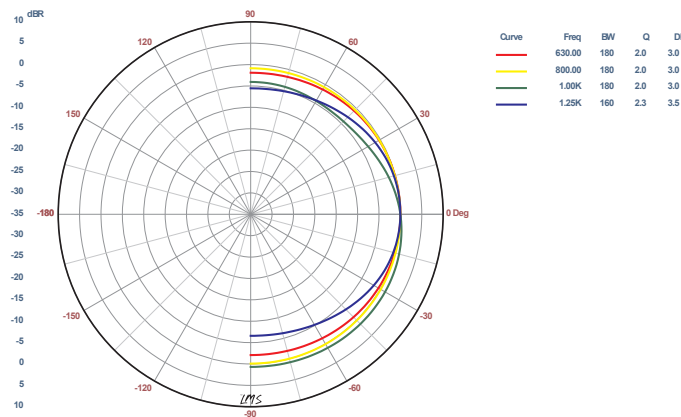
RATIO VS ANGLE



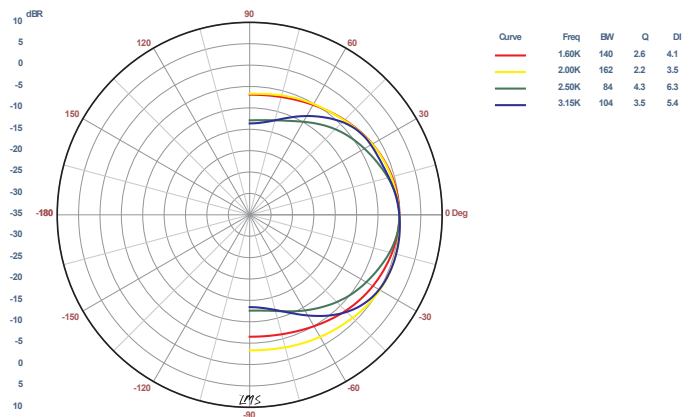
RATIO VS ANGLE



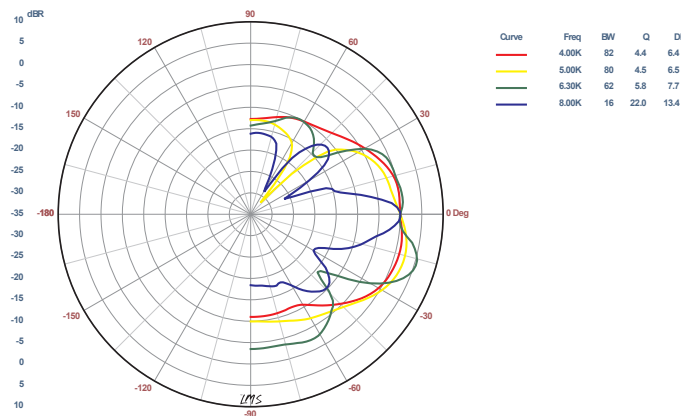
RATIO VS ANGLE



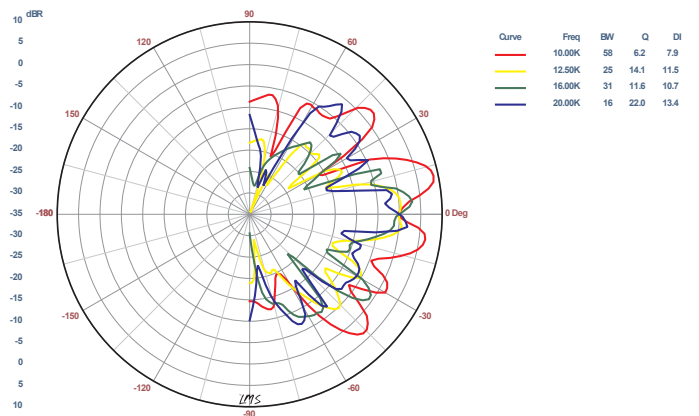
RATIO VS ANGLE



RATIO VS ANGLE



RATIO VS ANGLE



DIMENSIONAL SKETCHES SPECIFICATIONS

PS-C83RWT Loudspeaker

Diameter: 11.06" (281mm)

Depth: 9.84" (250mm)

Cut Out

Diameter: 10.125" (257mm)

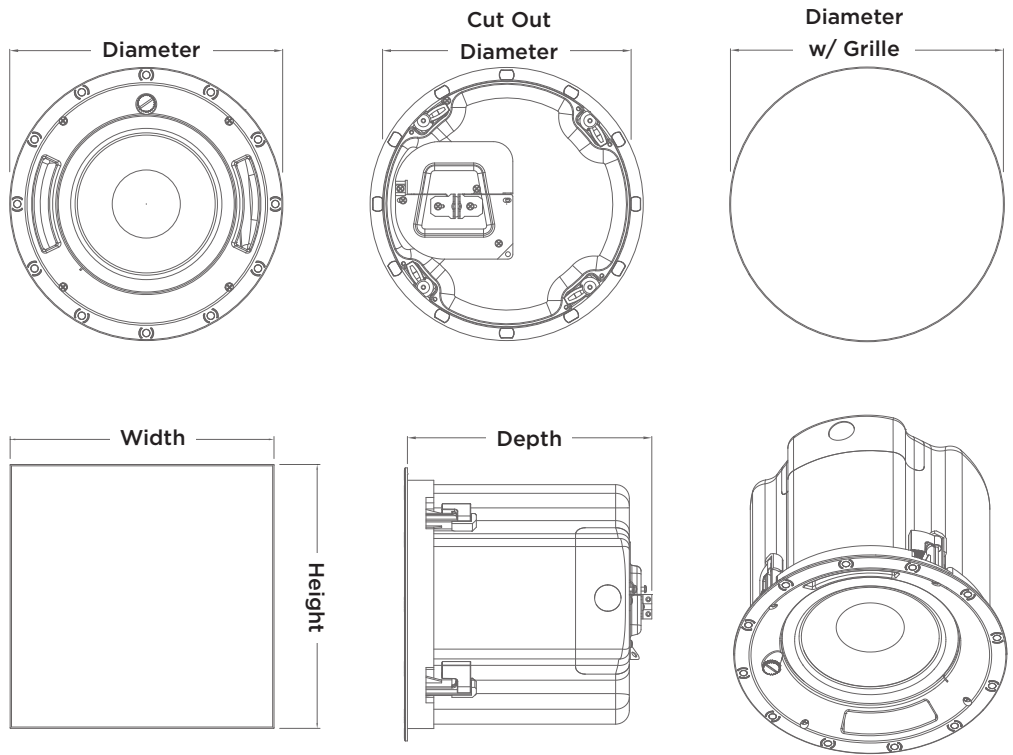
With Grille

Diameter: 11.06" (281mm)

With Square Adapter and Grille

Width: 11.14" (283mm)

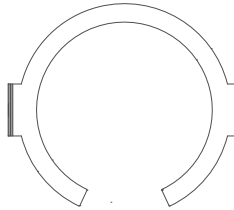
Height: 11.14" (283mm)



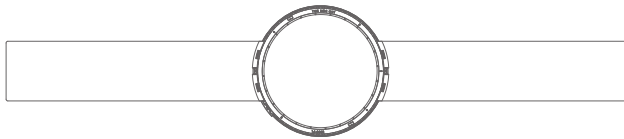
Tile Bridge



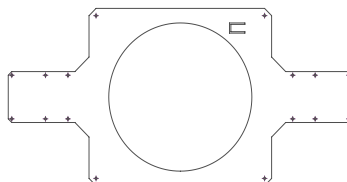
C-Ring



Flex Bracket



Metal Pre-construction Bracket



SONANCE

ASSOCIATED PRODUCTS

IN-CEILING SPEAKERS

PS-C43RT In-Ceiling Speaker	40130
PS-C63RT In-Ceiling Speaker	40131
PS-C83RT In-Ceiling Speaker	40132
PS-C43RTLP In-Ceiling Speaker	40181
PS-C63RTLP In-Ceiling Speaker	40182

PENDANT SPEAKERS

PS-P43T Pendant Speaker White	40134
PS-P63T Pendant Speaker White	40135
PS-P83T Pendant Speaker White	40136
PS-P83WT Pendant Speaker White	40137
PS-P43T Pendant Speaker Black	40138
PS-P63T Pendant Speaker Black	40139
PS-P83T Pendant Speaker Black	40140
PS-P83WT Pendant Speaker Black	40141

SURFACE MOUNT SPEAKER

PS-S43T Surface Mount Speaker White	40142
PS-S53T Surface Mount Speaker White	40143
PS-S63T Surface Mount Speaker White	40144
PS-S83T Surface Mount Speaker White	40145
PS-S83WT Surface Mount Speaker White	40146
PS-S43T Surface Mount Speaker Black	40147
PS-S53T Surface Mount Speaker Black	40148
PS-S63T Surface Mount Speaker Black	40149
PS-S83T Surface Mount Speaker Black	40150
PS-S83WT Surface Mount Speaker Black	40151

DSP AMPLIFIER

Sonamp DSP 2-750 Amplifier	93095
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ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be of the woofer-type comprising a single flush mount enclosure containing one 8" (203mm) polypropylene cone, butyl rubber surround, ultra-high excursion low frequency transducer. It shall utilize a one-piece bezel-less grille design and an optional square grille adapter shall also be available if required. Frequency range shall be 50Hz - 150Hz (-3dB). Total power handling shall be 200 Watts continuous pink noise and 160 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 50Hz - 150Hz shall be 89dB. The unit shall be supplied with a line-matching transformer suitable for 100 volt or 70 volt with a front-mounted control allowing user selectable power taps of 120W, 60W, 30W, and 15W (70V) and an 8 Ohm bypass. The back shall be constructed from deep drawn steel. The baffle shall be ported and injection molded using fire rated ABS that meets UL 94V-0. The speaker shall be suitable for use in air handling spaces per UL 2043, NFPA90, NFPA70 and S7232 as well as UL 1480, UL Rated signaling speaker. Wire shall be terminated in an enclosed area on the rear of the back can with a secondary knock-out. Strain relief shall be provided for wire. A seismic attachment shall be provided on the rear of the back can to allow additional support when necessary. The system shall include a support backing plate to reinforce the ceiling material and tile support rails which can all be installed from beneath the ceiling tile. External dimensions shall be 11.06" Diameter x 9.84" Depth (281mm x 250mm). The total enclosure shall weigh 12 lbs. (5.44 kg) per unit. It shall share consistent voicing with other form factors within its product family so as to provide continuity of sonic signature when combined within a project. The loudspeaker shall be the Sonance Professional Series PS-C83RWT. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

SONANCE

SAFETY AGENCY COMPLIANCE

Sonance Professional Series In-Ceiling Speaker are compliant with:

UL 2043

Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use. Suitable for use in air-handling spaces.

UL 1480

Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

NFPA 70

2002 National Electrical Code

NFPA 90A

Installation of Air Conditioning and Ventilation Systems, Section 2-3.10.1(A)



TECHNICAL ASSISTANCE AND SERVICE

The Technical Assistance Department at Sonance is available at (949) 492-7777 to answer any questions concerning the operation and installation of your speakers between the hours of 7:00 AM and 5:00 PM Pacific time, Monday through Friday, except holidays.

In the event your unit should need repair or service, you may return the unit to your authorized dealer or use the following guidelines:

PLEASE KEEP ORIGINAL PACKAGING WHEN POSSIBLE.

1. Be prepared to state the model number and / or serial number, date of purchase, and dealer's name and address when calling.
2. Contact Sonance directly at (949) 492-7777 or at www.sonance.com. **YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR UNIT.**
3. If you are returning the product directly to Sonance, call us to obtain a return authorization number before shipping.
4. Ship the product via United Parcel Service, Federal Express, or other package delivery service. Please do not use the U.S. Postal Service.
5. Include the return authorization number on the shipping label.
6. Ship to:

Attn: Quality Assurance Department,
RMA#(include RMA number here)
Sonance
11016 Mulberry Ave.
Suite B
Fontana, CA 92337

SONANCE

WARRANTY, REMEDY, EXCLUSIONS AND LIMITATIONS (USA ONLY)

LIMITED WARRANTY

Sonance warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of five (5) years from the date of original purchase as shown on the invoice. The foregoing exclusive warranty gives you specific legal rights, and you may have other rights, which vary from state to state. This warranty applies exclusively to the original purchaser.

The exclusive warranty does not apply and is ineffective if:

1. The invoice fails to establish that the product was purchased from an authorized Sonance dealer or distributor;
2. The product was subjected to misuse, neglect, accident, or improper installation.
(Damage to the product was caused by accident, abuse or misuse);
3. The product was modified, altered, or repaired by unauthorized personnel; or
4. The unit was not used as described in the installation and operating instructions.

EXCLUSIVE REMEDY

Sonance agrees, at its option during the five (5) year warranty period, to repair any defect in material or workmanship or to furnish an equal product in exchange without charge to the purchaser, subject to the verification of the defect and proof of the date of purchase.

WARRANTY EXCLUSIONS AND DAMAGE LIMITATIONS

The exclusive warranty set forth above is in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are expressly disclaimed. In no event, and under no circumstances or legal or equitable theory, shall Sonance be liable or responsible for any direct or indirect damages, consequential damages, loss, or injury, including without limitation, personal injury, bodily injury, property damage, emotional distress, death, real property or personal property damage, business interruption, costs of delay or lost profits arising from the product, whether based upon warranty, contract, negligence, strict product liability or other theory.

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