

SONANCE

PSXT-C83RT EXTREME LOUDSPEAKER

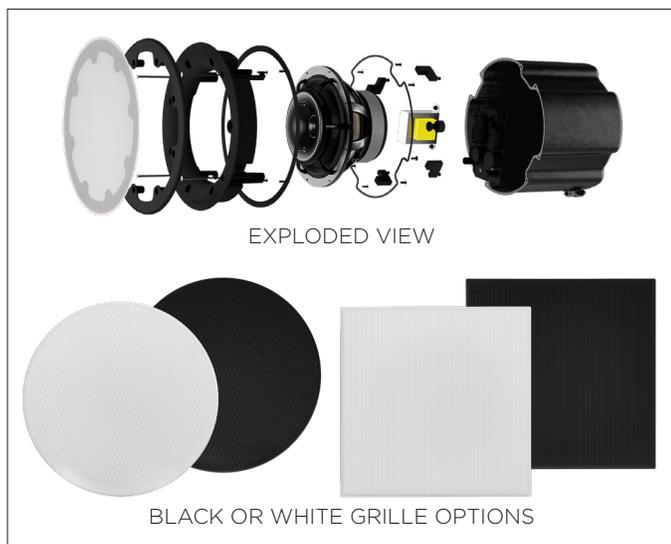
PROFESSIONAL SERIES PRELIMINARY DATA SHEET

PROFESSIONAL SERIES EXTREME LOUDSPEAKERS

These loudspeakers deliver high-fidelity audio performance in harsh outdoor environments thanks to their marine-grade construction, UV-resistant materials, and sealed enclosures designed to withstand extreme heat, moisture, and corrosive salt air.

APPLICATIONS

- Porte-cochères/entryways exposed to high wind
- Coastal resorts and oceanfront properties
- High-humidity zones such as saunas, steam rooms, and indoor pools
- Outdoor dining, lounges, entertainment zones
- Parking structures, breezeways, and transitional commercial spaces



FEATURES AND BENEFITS

WEATHER-RESILIENT ENGINEERING

IP66-rated for dust and water resistance in harsh, high-exposure environments.

XPC GRILLE SYSTEM

Designed to withstand high wind shear, ensuring long-term reliability while maintaining a clean, architectural aesthetic.

VERSATILE DEPLOYMENT

Extreme loudspeakers include ultra-low saturation 70/100V transformer with 8 ohm bypass for system flexibility; allowing integrators to use them in large scale distributed audio systems (70/100V) or standard low impedance setups (8 ohm), depending on the installation needs.

BUILT FOR COMMERCIAL STANDARDS

UL1480A and UL2043 certified for Commercial and Professional use and to be installed in air-handling spaces.

ARCHITECTURAL INTEGRATION

Optional grille accessories help speakers blend seamlessly into ceiling finishes and design schemes.

INCLUDED ACCESSORIES

- Cutout Template
- Euroblock Connector
- White Micro Trim XPC Grille Round
- Wire/Conduit Clamp

OPTIONAL ACCESSORIES

- Replacement 8" Round Micro Trim XPC Grille XPC-8R-T (PR) | 93744
- 8" Square Micro Trim XPC Grille White XPC-8SQ-T (PR) | 93752
- 8" Round Micro Trim XPC-8R-T-BLK (PR) | 93770
- 8" Square Micro Trim XPC-8SQ-T-BLK (PR) | 93771
- Flex Bracket (5PR) | 92247
- Metal Pre-construction Bracket (6 PK) | 40125
- Tile Support Rails w/ C-Ring (PR) | 40174
- Replacement RotoLock Feet (4 PK) | 93776

TECHNICAL SPECIFICATIONS

PSXT-C83RT EXTREME LOUDSPEAKER

SKU	40238
Color	Ships with RAL9003 white round micro trim XPC grill. Optional black accessories RAL7021

TRANSDUCERS

LF Driver	8" (203mm) polypropylene cone, Santoprene surround, 38.55mm Voice Coil Size, Ferrite Magnet
HF Driver	1.2" (30mm) waterproof cloth dome, Ferrofluid-cooled, acoustic back chamber, 30mm Voice Coil Size, Neodymium Magnet, 1800Hz Crossover Frequency

PERFORMANCE SPECIFICATIONS

Frequency Range (-10dB)	43.1Hz - 25kHz
Frequency Range (-3dB)	59.3Hz - 20kHz
Nominal Sensitivity	90 dB SPL
Long Term Power Handling (IEC)	80 watts (320 Watts Peak), 100 Hours
Program Power	160 watts (640 Watts Peak), 2 Hours
Long Term - Maximum SPL	109dB (115dB Peak)
Program Power - Maximum SPL	112dB (118dB Peak)
Rated Impedance	8 ohms bypass

ACOUSTIC SPECIFICATIONS

Coverage Pattern 1kHz to 10kHz	125° Axis Symmetric
Directivity Factor (Q)	4.3dB (Average 1kHz to 16kHz)
Directivity Index (DI)	8.3dB (Average 1kHz to 16kHz)

ELECTRICAL SPECIFICATIONS

Transformer Taps (70V)	80W, 40W, 20W, 10W(8 ohm bypass)
Transformer Taps (100V)	80W, 40W, 20W (8 ohm bypass)
Input Connector	Four pin, Euroblock with loop output connections

ENCLOSURE DETAILS

Enclosure Material	Steel, Powder coated
Baffle Material	PC/ABS (UL94V-0)
Grille Material	Aluminum, Powder coated
Suspension Points	One, on top surface
Standards Compliance	UL 1480A, UL 2043, CSA-C22.2 No.205, NFPA70, and NFPA 90A

PHYSICAL DIMENSIONS

Overall Dimension (Dia x D)	11.07" x 9.11" (232.8mm x 231.5mm)
Cut Out Dimension (Dia)	10.125" (257mm)
Mounting Depth	9.02" (229.2mm)
Round Micro Trim XPC Grille (Dia)	11.54" (293.2mm)
Square Micro Trim XPC Grille (WxH)	11.54" x 11.54" (293.1mm x 293.1mm)
Capture Thickness	0" to 2.12" (0mm to 53.84mm)

WEIGHT SPECIFICATIONS

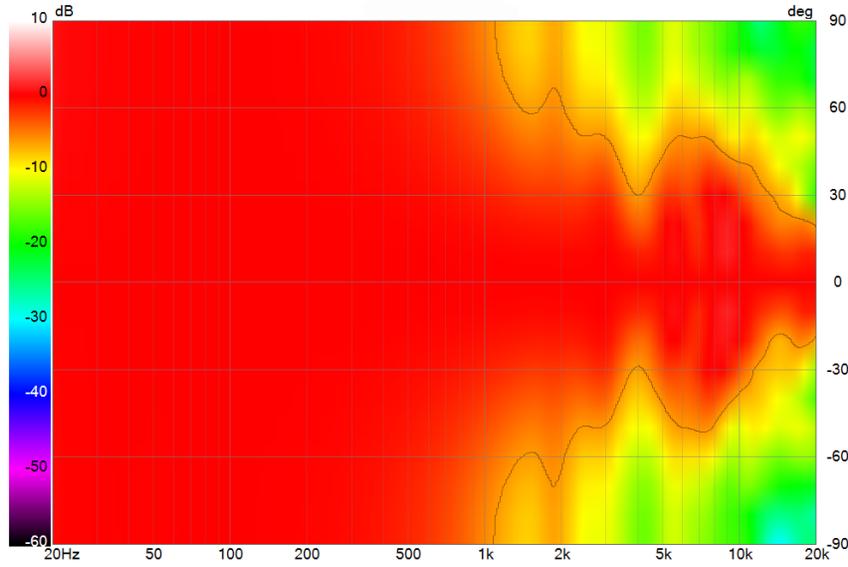
Shipping Weight (Pair)	46.53 lbs. (21.1kg)
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ENVIRONMENTAL SPECIFICATIONS

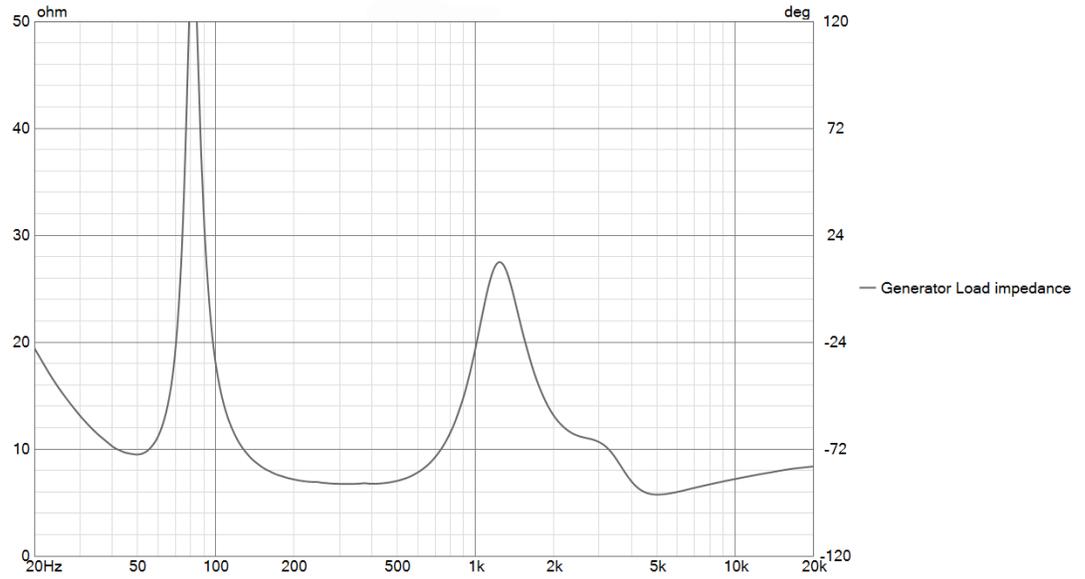
Operating Temperature Range	-40 F to 194 F (-40 C to 90 C)
IP Rating	IP66

PSXT-C83RT GRAPHS

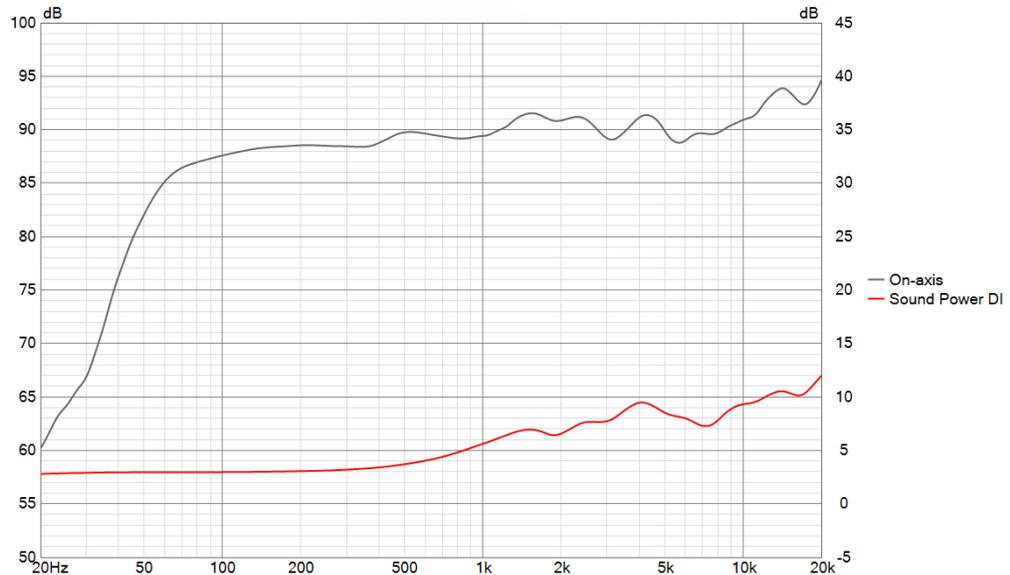
DIRECTIVITY



IMPEDANCE



SPL

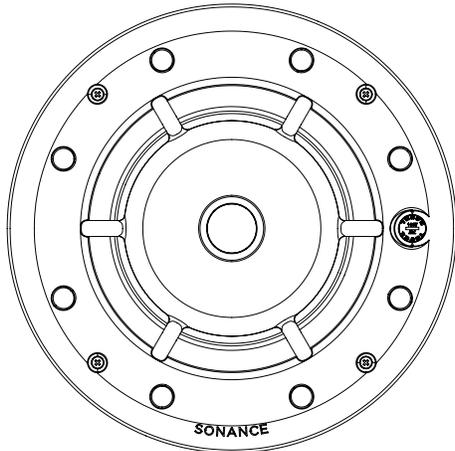


DIMENSIONAL SKETCHES SPECIFICATIONS

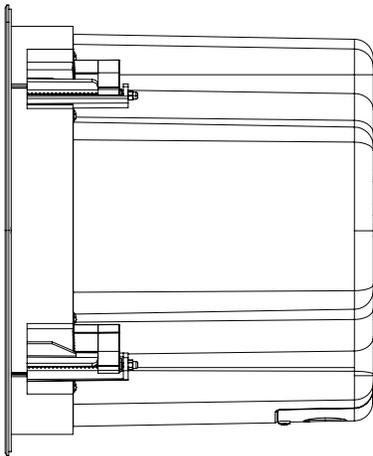
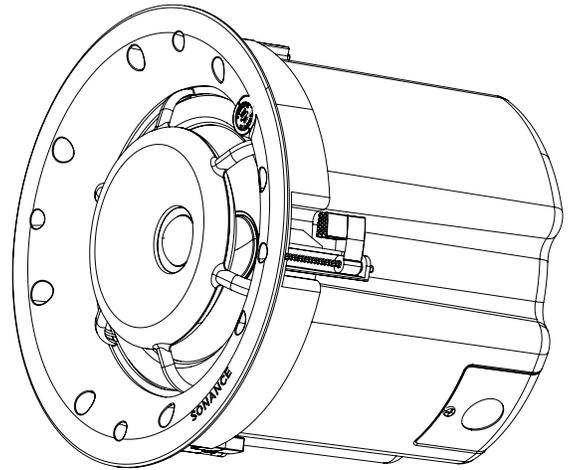
PSXT-C83RT Extreme Loudspeaker

Diameter: 11.07" (281.1mm)

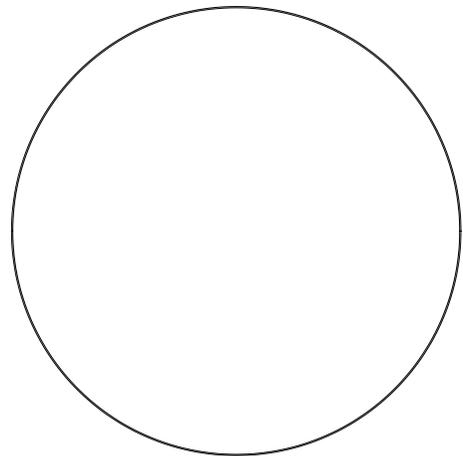
Depth: 9.02" (229.2mm)



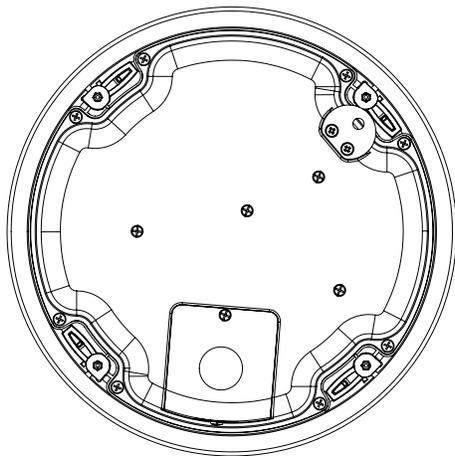
Loudspeaker Front
11.07" (281.1mm)



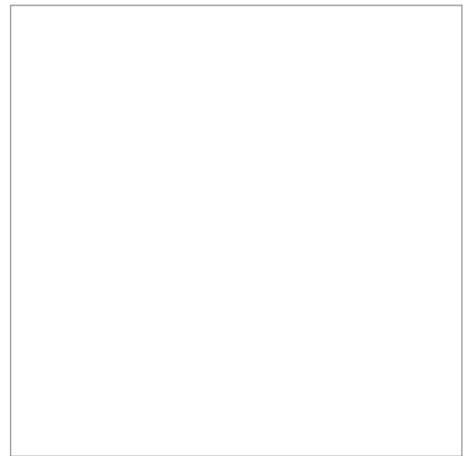
Loudspeaker Side
9.02" (229.2mm)



Round Grille Front
11.18" (283.9mm)



Loudspeaker Back
10.02" (254.5mm)



Square Grille Front
11.54" x 11.54" (293.1mm x 293.1mm)

ARCHITECTURAL SPECIFICATIONS

Sonance Professional Series Extreme - PSXT-C83RT 70V/100V/8 ohm Selectable 8" In-Ceiling Speaker

The loudspeaker shall be of the two-way type comprising a single flush mount enclosure containing one 8" (203mm) polypropylene cone, santoprene surround low frequency transducer with ferrite magnet and 38.55mm voice coil, and one coaxially mounted 1.2" (30mm) waterproof cloth dome, ferrofluid cooled high frequency transducer with neodymium magnet, 30mm voice coil, and acoustic back chamber with 1800Hz crossover frequency. It shall utilize the Extreme Post Capture grille system designed to withstand high wind shear while maintaining architectural aesthetic, with optional square grille adapter available if required. Frequency range shall be 59.3Hz - 20KHz (+/-3dB) with extended range of 43.1Hz - 25kHz (-10dB). Sensitivity measured with 2.83 volts input at 1 meter on axis shall be 90dB SPL. Long term power handling shall be 80 Watts continuous (320 Watts Peak) for 100 hours per IEC standards, with program power of 160 Watts (640 Watts Peak) for two hours. Long term maximum SPL shall be 109dB (115dB Peak) with program power maximum SPL of 112dB (118dB Peak). The unit shall be supplied with a laminated core line matching transformer suitable for 100 volt or 70 volt with front mounted control allowing user selectable power taps of 80W, 40W, 20W, and 10W (70V), 80W, 40W, and 20W (100V), and an 8 ohm bypass. The enclosure shall be constructed from steel, powder coated with IP66-rated dust and water resistance. The baffle shall be injection molded using fire rated PC/ABS that meets UL94V-0. The grille material shall be aluminum, powder coated. The system shall be certified for UL 1480A and UL 2043 listing, and conform to CSA-C22.2 No.205, NFPA90A, and NFPA70 standards. Wire shall be terminated via four pin Euroblock connector with loop output connections in an enclosed area on the rear of the enclosure. One suspension point shall be provided on the top surface to allow additional support when necessary. The system shall include support components for installation with capture thickness capability from 0" to 2.12" (0mm to 53.84mm). Enclosure cubic volume shall be 0.28 Cubic Feet (7.93 Cubic Liters). Coverage pattern from 1kHz to 10kHz shall be 125 degrees axis symmetric with directivity factor (Q) of 4.3 averaged from 1kHz to 16kHz and directivity (DI) of 8.3dB averaged from 1kHz to 16kHz. Operating temperature range shall be -40°F to 194°F (-39.96°C to 89.9°C). External dimensions shall be 11.07" Diameter x 9.11" Depth (281.2mm x 231.5mm) with mounting depth of 9.02" (229.2mm) and cut out dimension of 10.125" diameter (257mm). Round micro trim XPC grille diameter shall be 11.54" (293.2mm) with optional square micro trim XPC grille measuring 11.54" x 11.54" (293.1mm x 293.1mm). The total enclosure shall weigh 15.9 lbs. (7.21 kg) per unit without grille and 16.36 lbs. (7.42 kg) per unit with grille. Shipping weight shall be 46.53 lbs. (22.32 kg) per pair. It shall have weather-resilient engineering with an IP66 rating and accurate sonic performance to deliver both good intelligibility and musicality. The loudspeaker shall be the Sonance Professional Series Extreme PSXT-C83RT. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

SAFETY AGENCY COMPLIANCE

Sonance Professional Series Extreme Loudspeaker model PSXT-C83RT meets the following standards:

UL-1480A: Speakers for Commercial and Professional use

UL-2043: Fire test for heat and visible smoke release for discrete products and their accessories installed in air handling spaces

CSA-C22.2 No.205: Signal equipment shall be installed in accordance with:

NFPA-70: National Electric Code

NFPA-90A: Installation of Air Conditioning and Ventilation

CSA C22.1: Canadian Electrical Code



TECHNICAL ASSISTANCE AND SERVICE

For Technical Assistance, call (949) 492-7777 for any questions concerning the speaker operation and installation between the hours of 7:00AM - 5:00PM (Pacific), 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, dealer's name and address.
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

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.