

SONANCE

PROFESSIONAL SERIES SURFACE MOUNT SPEAKER

PS-S53T MKII

PROFESSIONAL SERIES SURFACE MOUNT SPEAKERS

The new standard in aesthetics and sonic performance for today's commercial audio applications.

The Sonance PS-S53T MKII is a two-way, 5.25" surface mount loudspeaker that features a high-excursion, 5.25" polypropylene woofer combined with a chambered 1" soft dome tweeter, engineered to deliver best in class performance in both 8 ohm and 70V/100V applications.

Housed in a rugged, high-impact ABS enclosure, the PS-S53T MKII features a clean, unobtrusive design that will compliment a variety of interior and exterior decors. The patented FastMount® bracket system enables the enclosure to pivot 180° on the bracket while the front mounted input connectors and transformer tap switch ensures a close deployment on any mounting surface.

This IP45-rated enclosure boasts an extreme temperature resistant cabinet and is coupled with a corrosion-resistant, powder coated, aluminum grille for long term durability. The PS-S53T MKII is UL 1480A and UL2239 Listed and available in black and white (paintable) finishes.

All Professional Series in-ceiling, surface-mount, and pendent models share complementary power capabilities and consistent voicing, ensuring seamless integration across any environment.

FEATURES AND BENEFITS

PERFORMANCE

- Class-leading sensitivity and sonic performance
- Exceptional off-axis response
- Heavy-duty voice coil for longevity and reliability
- Ultra-low saturation transformer for uncompromised performance on 70V/100V lines
- Consistent voicing across product range

AESTHETICS

- Clean and minimalistic design
- Available in black or white (paintable)

INSTALLATION

- FastMount® bracket system for easy installation
- Front-located cable connector and tap selector
- Connector and tap selector cover
- Corrosion-resistant powder coated aluminum grille

APPLICATIONS

- Shopping Malls, Retail Spaces and Showrooms
- Restaurants, Bars and Lounges
- Galleries, Museums and Amusement Parks
- Casinos, Convention Centers and Hotels
- Houses of Worship and Educational Facilities
- Sporting Facilities
- Marinas, Piers and Wharfs



TECHNICAL SPECIFICATIONS

LOUDSPEAKER

| | |
|-------------------------|---|
| SKU | 40202 (White), 40201 (Black) |
| Frequency Range (-10dB) | 43Hz - 25kHz |
| Frequency Range (-3dB) | 70Hz - 20kHz |
| Power Capacity | 90 Watts Continuous Program Power; 45 Watts Continuous Pink Noise |
| Nominal Sensitivity | 88dB |
| Nominal Coverage Angle | 90 degrees x 90 degrees coverage |
| Directivity Factor (Q) | 7 |
| Directivity (DI) | 8dB |
| Rated Maximum SPL | 106dB @ 1 meter (3.3 feet) average, 113dB peak |
| Rated Impedance | 8 ohms nominal, 6 ohms minimum |
| Transformer Taps | 70V: 30W, 15W, 7.5W and 3.8W 100V: 30W, 15W and 7.5W |
| Crossover Point | 2750Hz |
| Overall Dimension | 10.08" Height x 6.36" Width x 5.68" Depth (256mm x 162mm x 144mm) |
| Net Weight | 8.68 lbs (3.94kg) each |
| Shipping Weight | 23.93 lbs (10.85kg) pair |
| Unit of Measure | Each |
| Color | Black or White |
| Grille | Powder Coated Aluminum Friction Fit |

TRANSDUCERS

| | |
|-----------|---|
| LF Driver | 5.25" (130mm) Polypropylene Cone, Butyl Rubber Surround |
| HF Driver | 1" (25mm) Cloth Dome, Ferrofluid cooled |

ENCLOSURE

| | |
|--------------------|---|
| Input Connectors | Front-mounted four pin, Euroblock with loop output connections |
| Safety Agency | UL 1480A, UL 2239, NFPA 70 |
| Mounting Bracket | U-Bracket with Sonance FastMount |
| Environmental & UV | Conforms to MIL-STD-810 for humidity, salt spray, temperature, IEC 529 IP45 splash-proof rating |

INCLUDED ACCESSORIES

- (2) Euroblock Connector
- (2) FastMount Bracket
- (2) Terminal Cover
- (2) Grille

ASSOCIATED PRODUCTS

IN-CEILING SPEAKERS

| | |
|------------------------------|-------|
| PS-C43RT In-Ceiling Speaker | 40130 |
| PS-C63RT In-Ceiling Speaker | 40131 |
| PS-C83RT In-Ceiling Speaker | 40132 |
| PS-C83RWT In-Ceiling Speaker | 40133 |

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 MKII Surface Mount Speaker White | 40200 |
| PS-S63T MKII Surface Mount Speaker White | 40204 |
| PS-S83T MKII Surface Mount Speaker White | 40206 |
| PS-S43T MKII Surface Mount Speaker Black | 40199 |
| PS-S63T MKII Surface Mount Speaker Black | 40203 |
| PS-S83T MKII Surface Mount Speaker Black | 40205 |
| PS-S83WT MKII Surface Mount Speaker Black | 40207 |

SURFACE MOUNT REPLACEMENT GRILLES

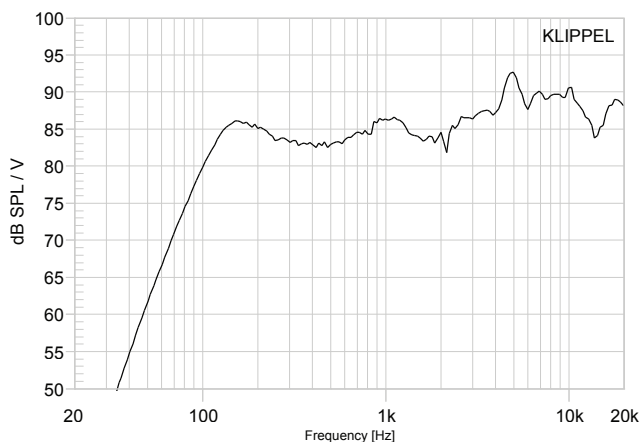
| | |
|---------------------------|-------|
| PS-S53T MKII Grille Black | 40212 |
| PS-S53T MKII Grille White | 40211 |

DSP AMPLIFIER

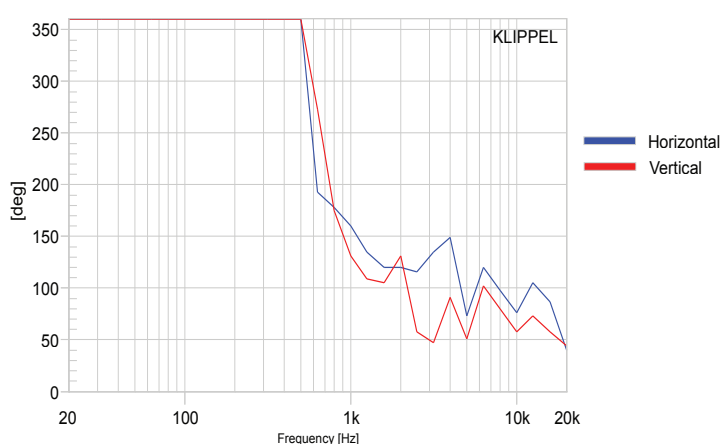
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| Sonamp DSP 2-750 Amplifier | 93095 |
|----------------------------|-------|

PERFORMANCE MEASUREMENTS

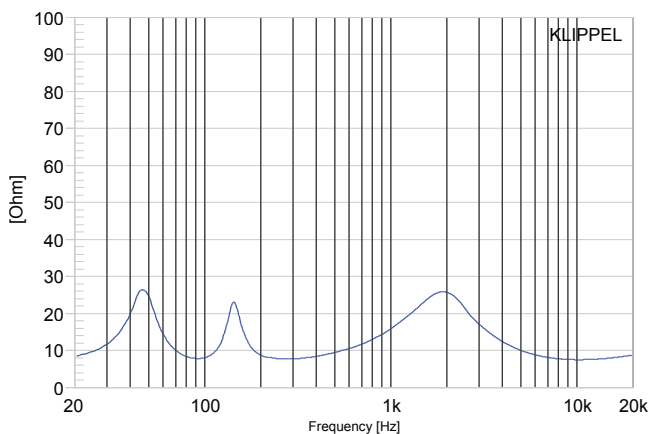
1 METER ON AXIS FREQUENCY RESPONSE



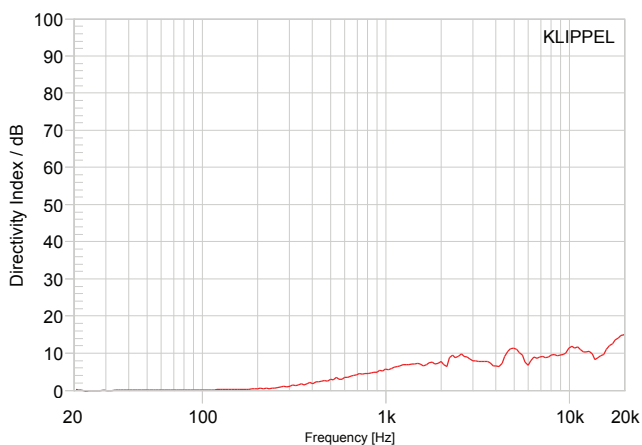
BEAMWIDTH VS FREQUENCY



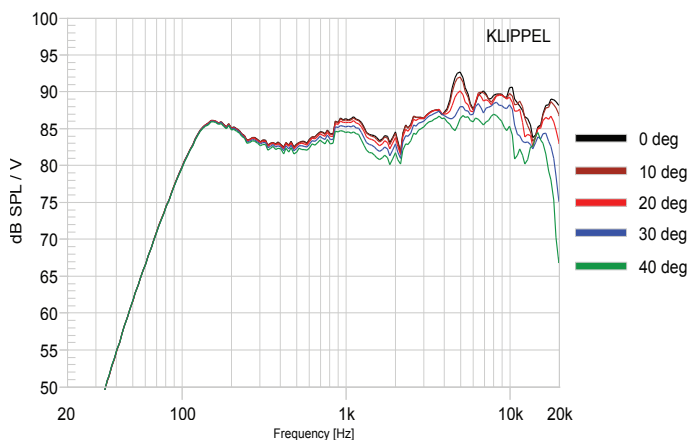
IMPEDANCE VS FREQUENCY



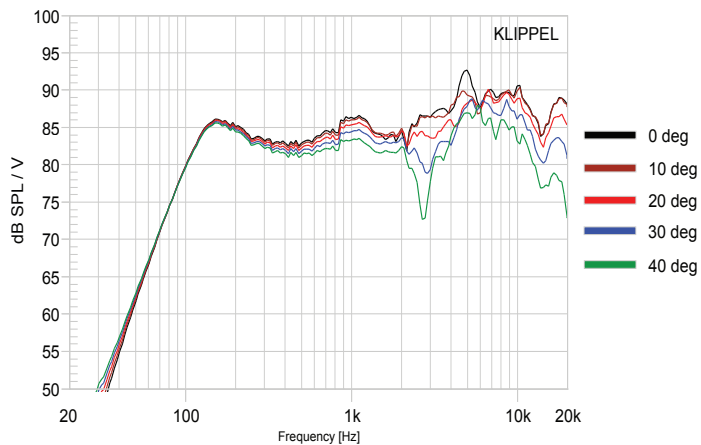
DIRECTIVITY INDEX VS FREQUENCY



1 METER HORIZONTAL FREQUENCY RESPONSE

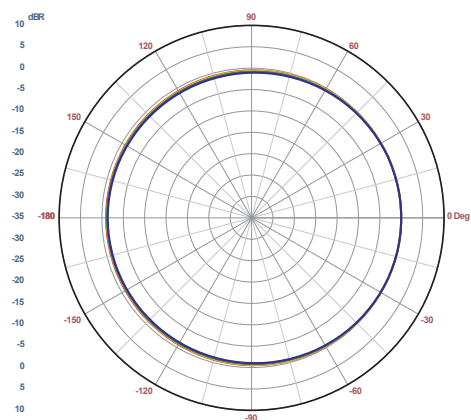



1 METER VERTICAL FREQUENCY RESPONSE



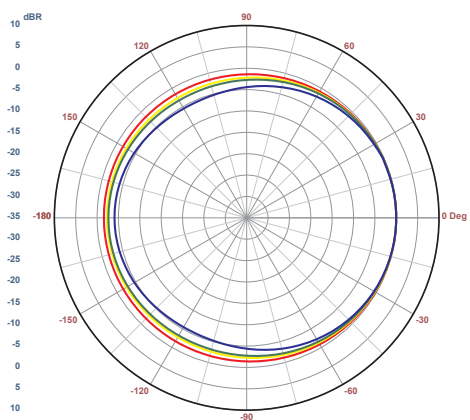
POLAR PLOTS (1/3 OCTAVE)


RATIO VS ANGLE



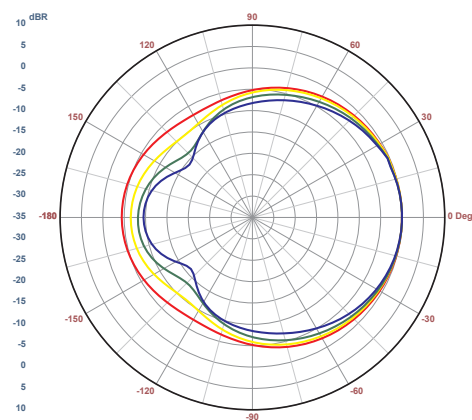
| Curve | Freq | BW | Q | DI |
|---|--------|-----|-----|-----|
| | 100.00 | 360 | 1.0 | 0.0 |
| | 125.00 | 360 | 1.0 | 0.0 |
| | 160.00 | 360 | 1.0 | 0.0 |
|  | 200.00 | 360 | 1.0 | 0.0 |


RATIO VS ANGLE



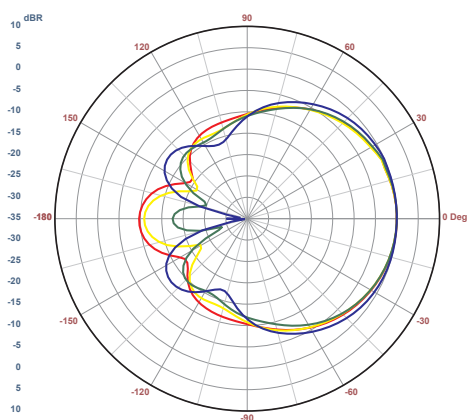
| Curve | Freq | BW | Q | DI |
|---|--------|-----|-----|-----|
| | 250.00 | 360 | 1.0 | 0.0 |
| | 315.00 | 360 | 1.0 | 0.0 |
| | 400.00 | 360 | 1.0 | 0.0 |
|  | 500.00 | 360 | 1.0 | 0.0 |



RATIO VS ANGLE



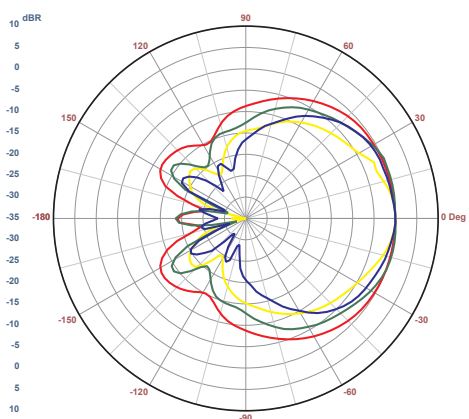
| Curve | Freq | BW | Q | DI |
|---|--------|-----|-----|-----|
| | 630.00 | 193 | 1.9 | 2.7 |
| | 800.00 | 178 | 2.0 | 3.1 |
| | 1.00K | 160 | 2.3 | 3.5 |
|  | 1.25K | 135 | 2.7 | 4.3 |


RATIO VS ANGLE



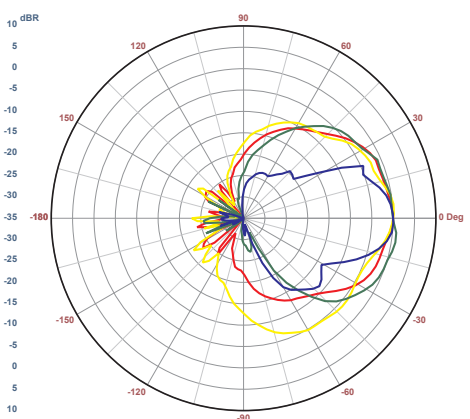
| Curve | Freq | BW | Q | DI |
|---|-------|-----|-----|-----|
| | 1.60K | 120 | 3.0 | 4.8 |
|  | 2.00K | 120 | 3.0 | 4.8 |
|  | 2.50K | 116 | 3.1 | 4.9 |
| | 3.15K | 135 | 2.7 | 4.3 |



RATIO VS ANGLE



| Curve | Freq | BW | Q | DI |
|---|-------|-----|-----|-----|
| | 4.00K | 149 | 2.4 | 3.8 |
|  | 5.00K | 73 | 4.9 | 6.9 |
| | 6.30K | 120 | 3.0 | 4.8 |
| | 8.00K | 98 | 3.7 | 5.6 |

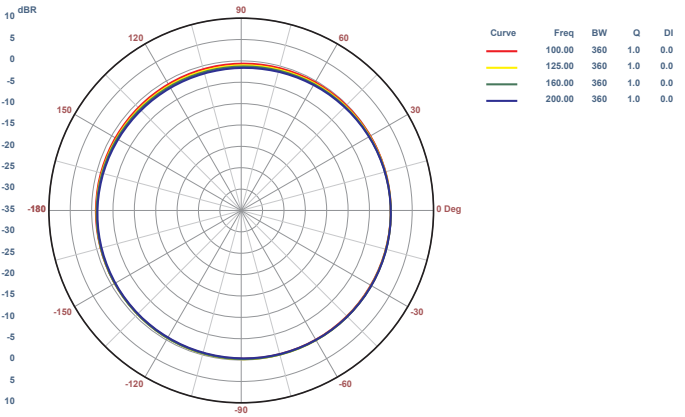
RATIO VS ANGLE



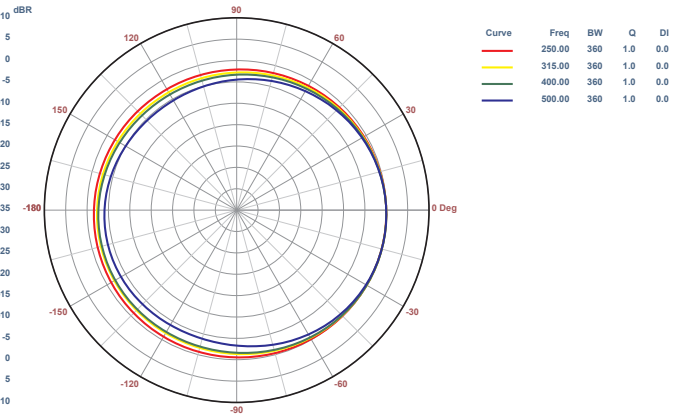
| Curve | Freq | BW | Q | DI |
|---|--------|-----|-----|-----|
|  | 10.00K | 76 | 4.7 | 6.7 |
|  | 12.50K | 105 | 3.4 | 5.3 |
| | 16.00K | 87 | 4.1 | 6.2 |
| | 20.00K | 40 | 9.0 | 9.5 |

POLAR PLOTS (1/3 OCTAVE)

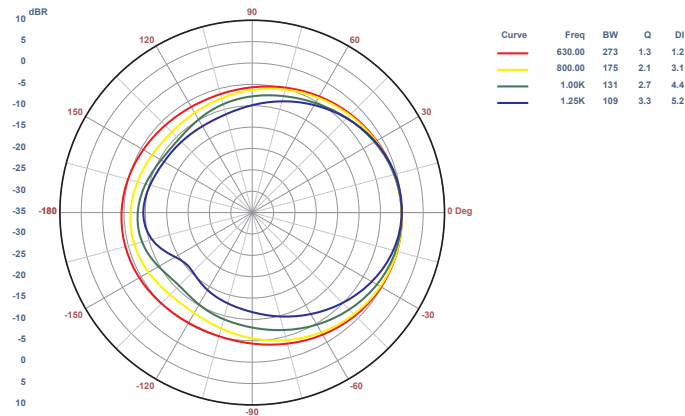
RATIO VS ANGLE



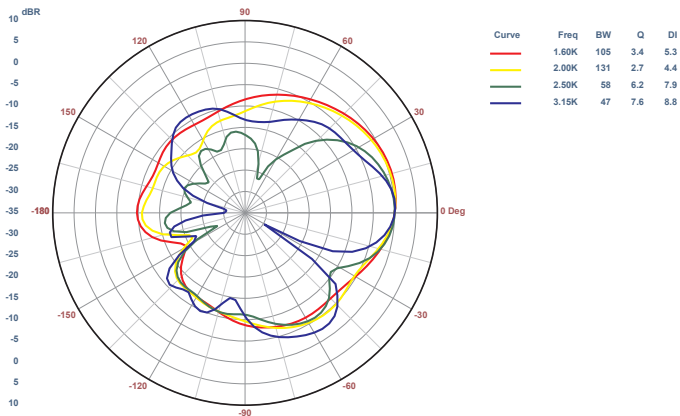
RATIO VS ANGLE



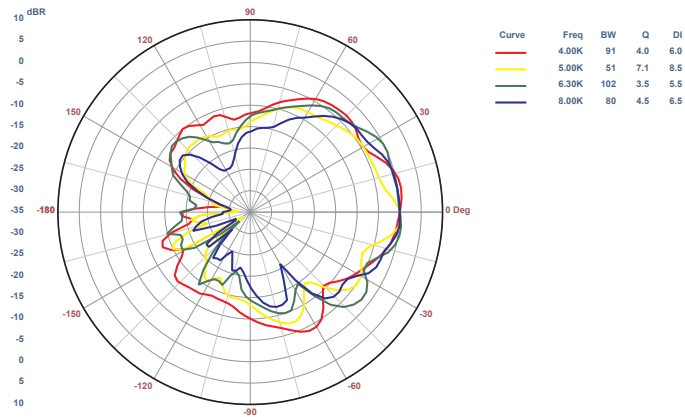
RATIO VS ANGLE



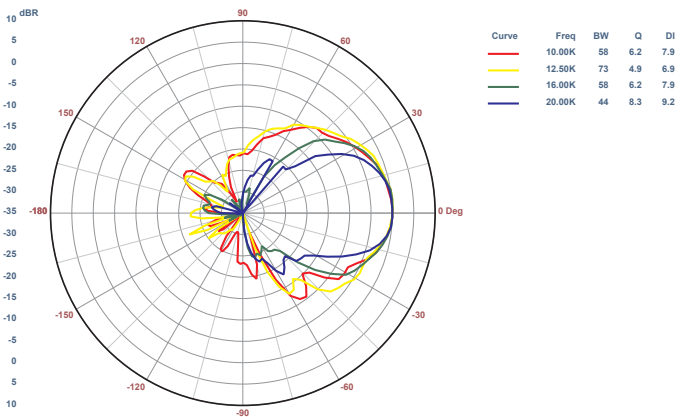
RATIO VS ANGLE



RATIO VS ANGLE



RATIO VS ANGLE



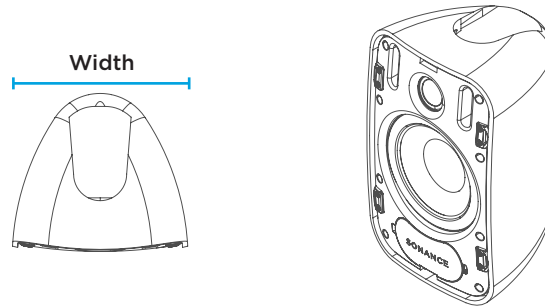
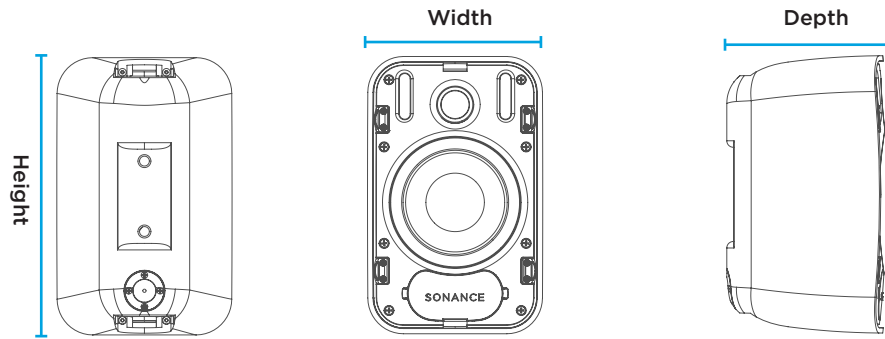
DIMENSIONAL SKETCHES SPECIFICATIONS

PS-S53T MKII Loudspeaker

Height: 10.08" (256mm)

Width: 6.36" (162mm)

Depth: 5.68" (144mm)



S5 Mounting Bracket

Height: 10.669" (271mm)

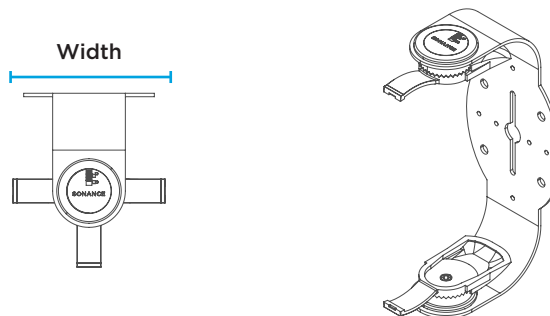
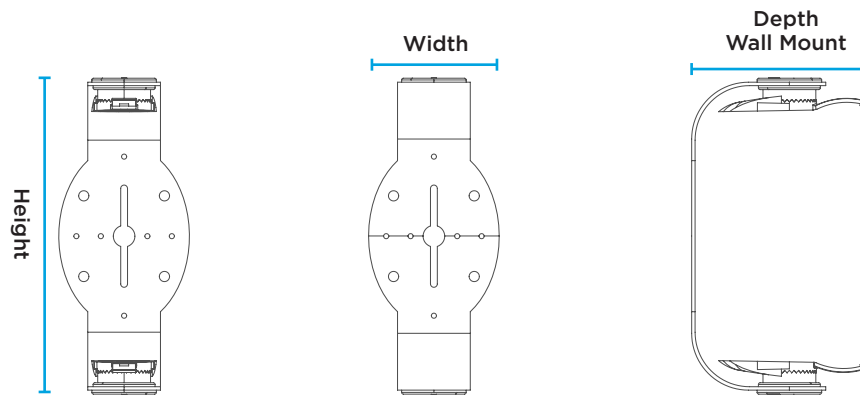
Width: 4.527" (115mm)

Depth Wall Mount:

6.181" (157mm)

Depth Ceiling Mount:

6.575" (167mm)



ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall be of the two-way type comprising a single surface-mount injection-molded ABS enclosure containing one 5.25" (130mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, chambered ferrofluid cooled high frequency transducer. It shall utilize a powder coated corrosion-resistant aluminum grille with a locking clip fit. Frequency range shall be 70Hz - 20KHz (-3dB). Total power handling shall be 45 Watts continuous pink noise and 90 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 70Hz - 20KHz shall be 88dB. The unit shall be supplied with a line-matching transformer suitable for 100 volt or 70 volt input signal with a front-mounted control allowing user selectable power taps of 30W, 15W, 7.5W and 3.8W (70V) and an 8 ohm bypass. The system shall include a FastMount® bracket that allows for a full 180° of pivot while keeping the enclosure less than 1" away from the mounting surface. Wire shall be terminated on the front of the enclosure via a four-pin Euroblock connector with loop-through and fed through a Protected Access Connection Terminal. The system shall meet UL 1480A and UL 2239 Standards, conform to MIL-STD-810 for humidity, salt spray, temperature and UV IEC 529, and meet or exceed an IP45 splash rating. External dimensions shall be 10.08" Height x 6.36" Width x 5.68" Depth (256mm x 162mm x 144mm). The total enclosure shall weigh 8.68 lbs. (3.9 kg) per unit. It shall share consistent voicing with other form factors and sizes 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-S53T MKII. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

SAFETY AGENCY COMPLIANCE

Sonance Professional Series Surface Mount Speaker are compliant with:

UL 1480A: Standard for safety for speakers in commercial and professional audio systems providing non-emergency sound reinforcement and provide ratings for various levels of moisture.

NFPA 70: 2002 National Electrical Code

ENVIRONMENTAL | UV: Conforms to Mil Spec 810 for humidity, salt spray, temperature, IEC 529 IP45 splash-proof rating.



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. 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.