

PROFESSIONAL SERIES

IN-CEILING SPEAKER PS-C43RT



Introducing the Sonance Professional Series

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark in sound 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-C43RT In-Ceiling Speaker 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.

A high-excursion 4" polypropylene woofer delivers effortless low bass extension, even at high volumes, while the pivoting chambered 1" soft dome tweeter can be directed to ensure accurate coverage, when speaker positioning is compromised.

The PS-C43RT 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-C43RT is certified for UL 1480 and UL 2043.

Features & 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

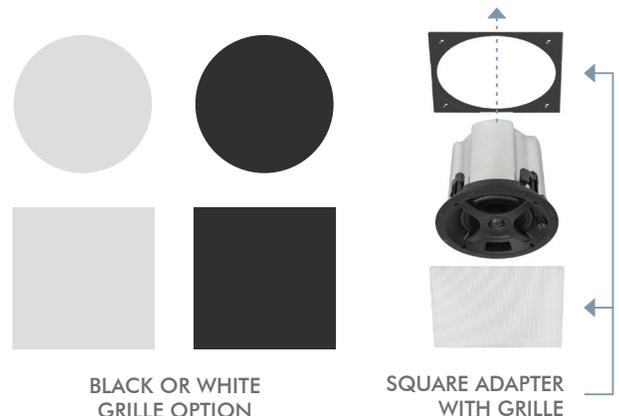
- Bezel-less design for clean and minimalistic aesthetic
- Optional Square Adapters to match light fixtures
- Optional black grilles in round or square

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



BLACK OR WHITE
GRILLE OPTION

SQUARE ADAPTER
WITH GRILLE

Specifications



PS-C43RT SKU# 40130

LOUDSPEAKER

Frequency Range (-10dB):	57Hz – 25kHz
Frequency Range (-3dB):	75Hz – 20kHz
Power Capacity:	60 Watts Continuous Program Power 30 Watts Continuous Pink Noise
Nominal Sensitivity:	87dB
Nominal Coverage Angle:	120 degrees conical coverage
Directivity Factor (Q):	7.6
Directivity (DI):	8.1dB
Rated Maximum SPL:	105dB @ 1 meter (3.3 feet) average, 110dB 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:	3000Hz
Overall Dimension:	6.3" Diameter x 7.01" Depth (160mm x 178mm)
Cut Out Dimension:	5.875" Diameter (149mm)
Net Weight:	5.63 lbs (2.55kg) each
Shipping Weight:	21.80 lbs (9.89kg) pair
Unit of Measure:	Pair
Grille:	Supplied with bezel-less white grille, black grille optional

TRANSDUCERS

LF Driver:	4" (100mm) Polypropylene Cone, Butyl Rubber Surround
HF Driver:	1" (25mm) Cloth dome, Pivoting, Ferrofluid cooled

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

Included Accessories

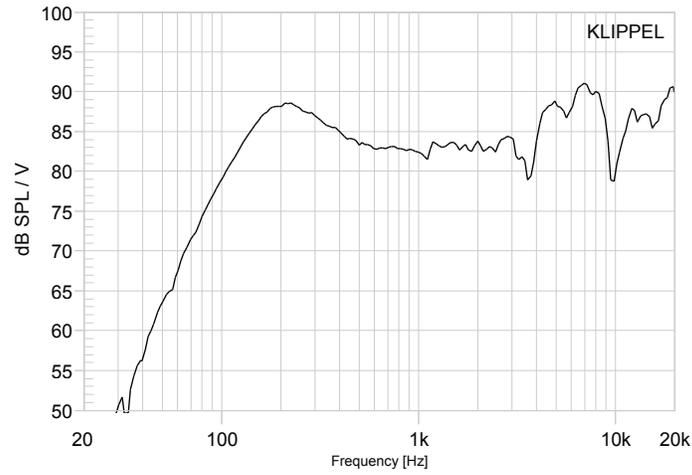
- C-Ring x 2
- Tile Support Rails x 4
- Cutout Template x 2
- Euroblock Connector x 2
- White Grille x 2

Optional Accessories

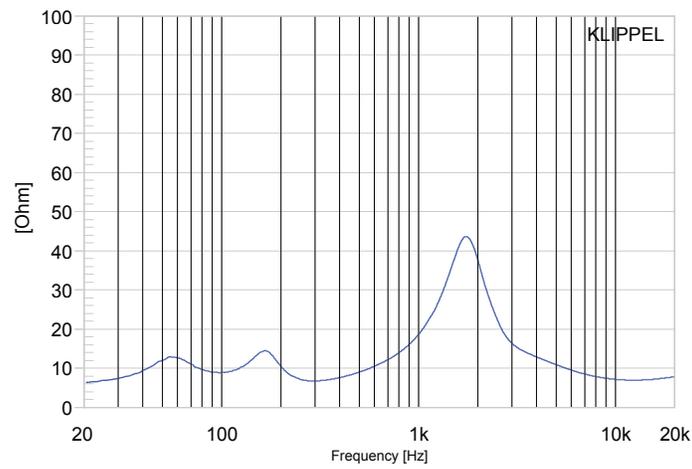
- Replacement Round Grille White (1 pair) | 40152
- Round Grille Black (1 pair) | 40155
- Square Adaptor w/ Grille White (5 pair) | 40158
- Square Adaptor w/ Grille White (1 pair) | 45158
- Square Adaptor w/ Grille Black (5 pair) | 40161
- Square Adaptor w/ Grille Black (1 pair) | 45161
- Flex Bracket (5 pair) | 92471
- Metal Pre-construction Bracket (5 pair) | 40177
- Tile Support Rails w/ C-Ring (1 pair) | 40172
- Replacement RotoLock Feet (Bag) | 40175

Performance Measurements

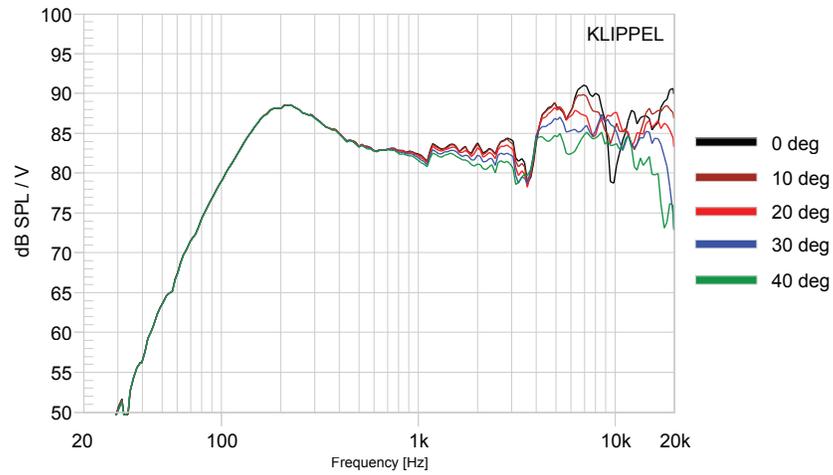
1 METER ON AXIS FREQUENCY RESPONSE



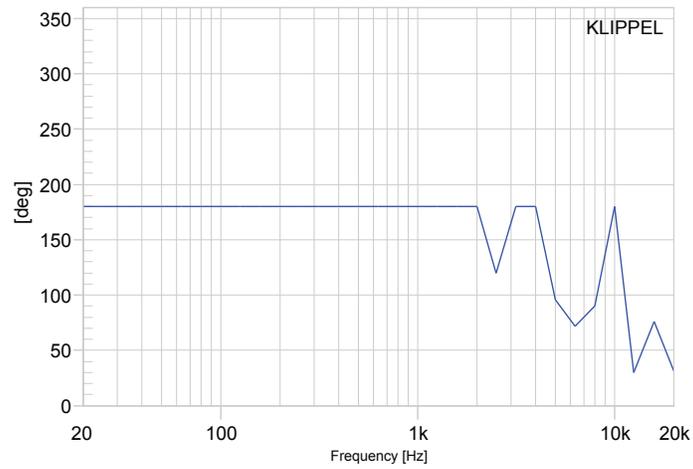
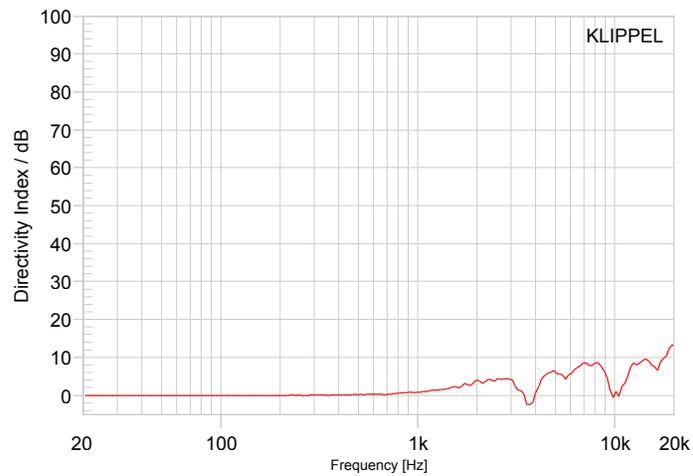
IMPEDANCE vs FREQUENCY



1 METER HORIZONTAL FREQUENCY RESPONSE

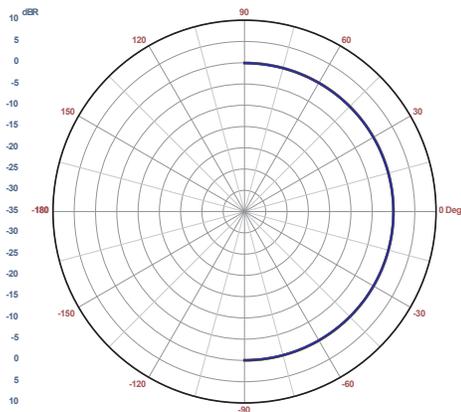


Performance Measurements

BEAMWIDTH vs FREQUENCY**DIRECTIVITY INDEX vs FREQUENCY**

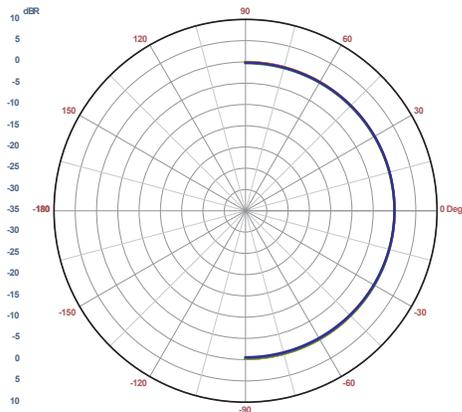
Polar Plots (1/3 Octave)

RATIO vs ANGLE



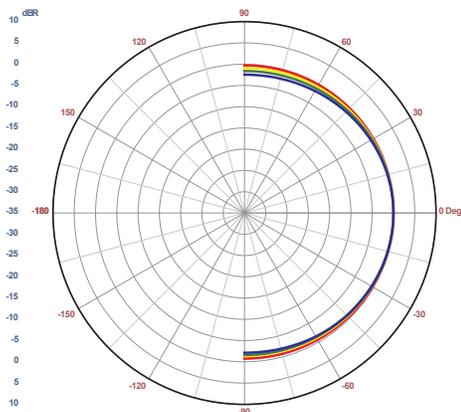
Curve	Freq	BW	Q	DI
Red	100.00	180	2.0	3.0
Yellow	125.00	180	2.0	3.0
Green	160.00	180	2.0	3.0
Blue	200.00	180	2.0	3.0

RATIO vs ANGLE



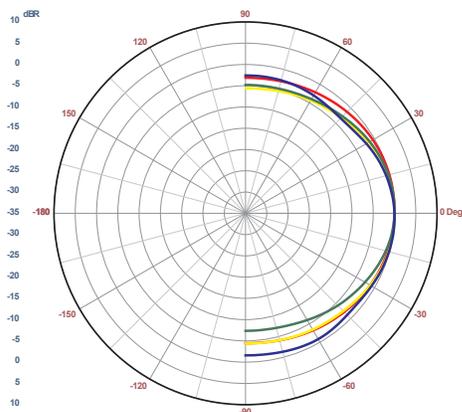
Curve	Freq	BW	Q	DI
Red	250.00	180	2.0	3.0
Yellow	315.00	180	2.0	3.0
Green	400.00	180	2.0	3.0
Blue	500.00	180	2.0	3.0

RATIO vs ANGLE



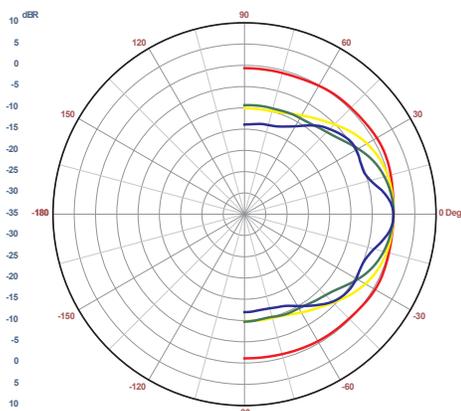
Curve	Freq	BW	Q	DI
Red	630.00	180	2.0	3.0
Yellow	800.00	180	2.0	3.0
Green	1.00K	180	2.0	3.0
Blue	1.25K	180	2.0	3.0

RATIO vs ANGLE



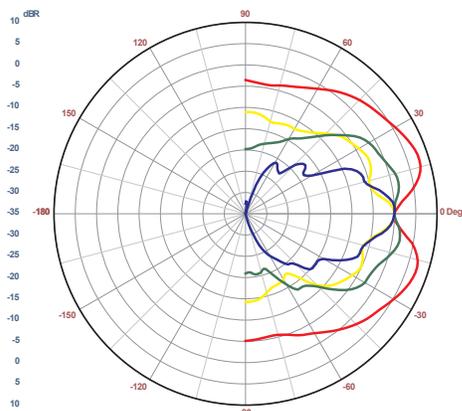
Curve	Freq	BW	Q	DI
Red	1.60K	180	2.0	3.0
Yellow	2.00K	180	2.0	3.0
Green	2.50K	149	2.4	3.8
Blue	3.15K	180	2.0	3.0

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	4.00K	180	2.0	3.0
Yellow	5.00K	95	3.8	5.8
Green	6.30K	71	5.1	7.1
Blue	8.00K	85	4.2	6.2

RATIO vs ANGLE

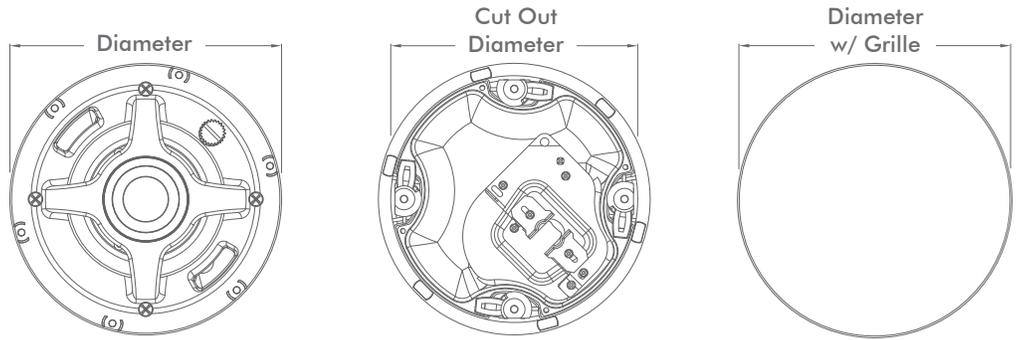


Curve	Freq	BW	Q	DI
Red	10.00K	180	2.0	3.0
Yellow	12.50K	51	7.1	8.5
Green	16.00K	76	4.7	6.7
Blue	20.00K	31	11.6	10.7

Dimensional Sketches Specifications

PS-C43RT Loudspeaker

Diameter: 6.3" (160mm)
 Depth: 7.01" (178mm)
 Cut Out Diameter: 5.875" (149mm)

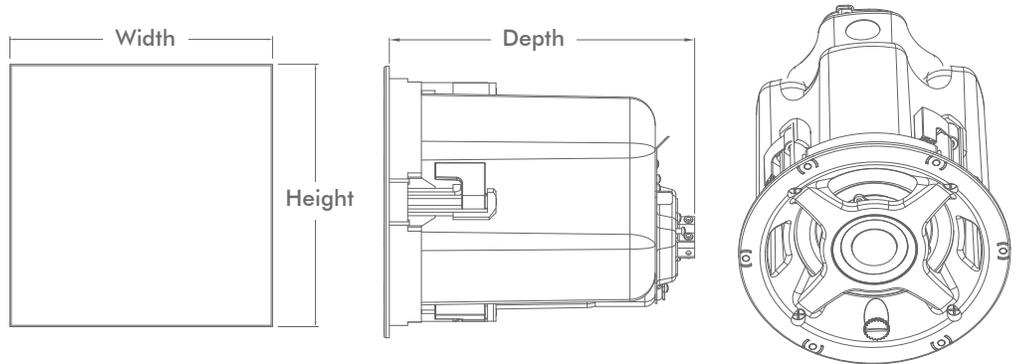


With Grille

Diameter: 6.3" (160mm)

With Square Adapter and Grille

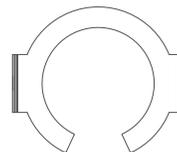
Width: 6.36" (162mm)
 Height: 6.36" (162mm)



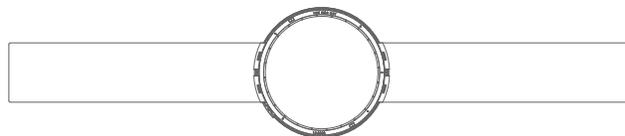
Tile Bridge



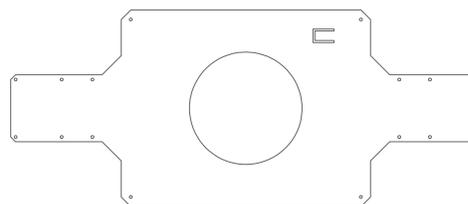
C-Ring



Flex Bracket



Metal Pre-construction Bracket



Architectural Specifications

The loudspeaker shall be of the two-way type comprising a single flush mount enclosure containing one 4" (100mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, pivoting, ferrofluid cooled high 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 75Hz – 20KHz (-3dB). Total power handling shall be 30 Watts continuous pink noise and 60 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 75Hz – 20KHz shall be 87dB. 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 30W, 15W, 7.5W and 3.8W (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, NFPA 90 and NFPA 70 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 6.3" Diameter x 7.01" Depth (160mm x 178mm). The total enclosure shall weigh 3 lbs. (1.36 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-C43RT. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

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)



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.

Associated Products

In-Ceiling Speakers

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 Speakers

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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Due to continuous product improvement, all features and specifications are subject to change without notice.
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