

IMPORTANT SAFETY INSTRUCTIONS

1. READ these instructions.
2. KEEP these instructions.
3. HEED all warnings.
4. FOLLOW all instructions.
5. DO NOT use this apparatus near water.
6. CLEAN ONLY with dry cloth.
7. DO NOT block any ventilation openings. Allow sufficient distances for adequate ventilation and install in accordance with the manufacturer's instructions.
8. DO NOT install near any heat sources such as open flames, radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat. Do not place any open flame sources on the product.
9. DO NOT defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. PROTECT the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. ONLY USE attachments/accessories specified by the manufacturer.
12. USE only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13. UNPLUG this apparatus during lightning storms or when unused for long periods of time.
14. REFER all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. DO NOT expose the apparatus to dripping and splashing. DO NOT put objects filled with liquids, such as vases, on the apparatus.
16. The MAINS plug or an appliance coupler shall remain readily operable.
17. The airborne noise of the Apparatus does not exceed 70dB (A).
18. Apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
19. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
20. Do not attempt to modify this product. Doing so could result in personal injury and/or product failure.
21. Operate this product within its specified operating temperature range.

Explanation of Symbols



Caution: risk of electric shock



Caution: risk of danger (See note.)



Direct current



Alternating current

On (Supply)



Equipment protected throughout by DOUBLE INSULATION or REINFORCED INSULATION



Stand-by



Equipment should not be disposed of in the normal waste stream

WARNING: Voltages in this equipment are hazardous to life. No user-serviceable parts inside. Refer all servicing to qualified service personnel. The safety certifications do not apply when the operating voltage is changed from the factory setting.

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

General Description

The Shure PA805Z2-RSMA is a passive directional antenna that improves RF performance by rejecting off-axis RF signal. Positioned remotely, antennas can be aimed directly at transmitters.

The antenna attaches to a microphone stand or to the separate wall-mounting bracket, and delivers the following benefits over standard omnidirectional half-wave antennas:

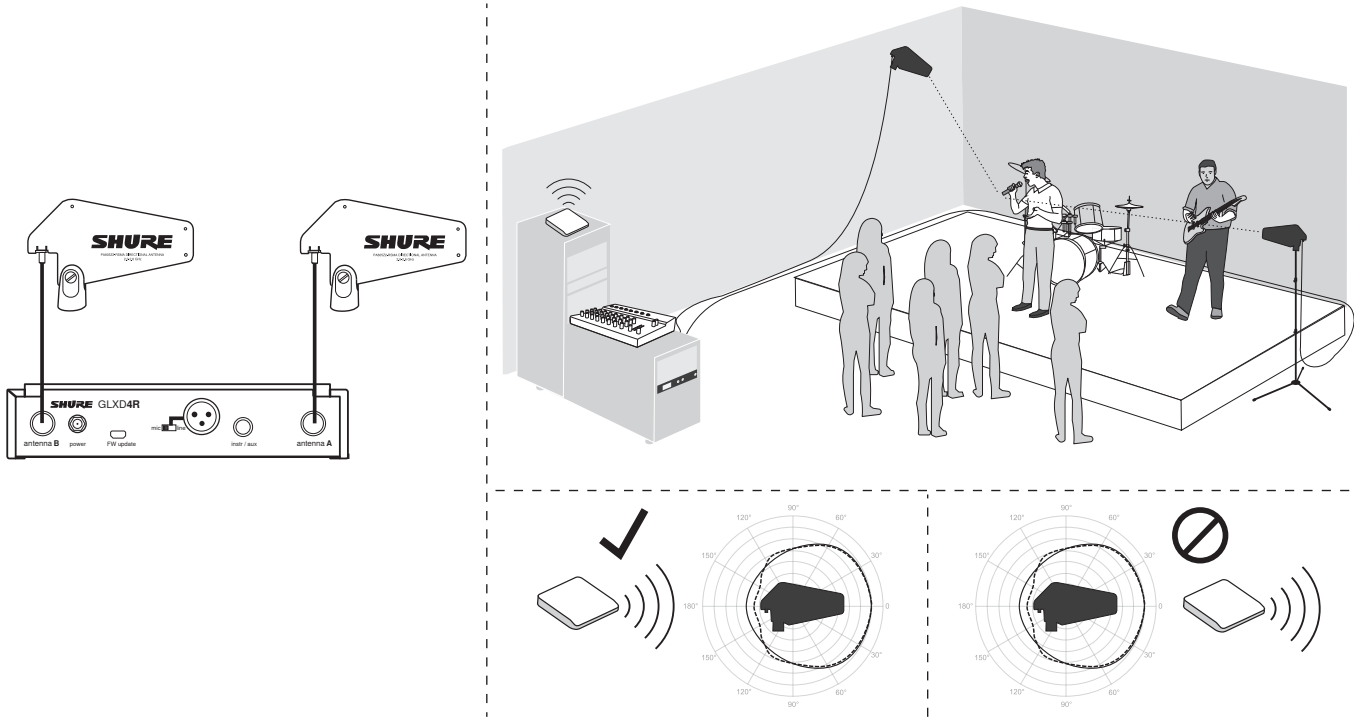
- Reduced interference
- Improved RF signal-to-noise ratio
- Antenna gain (8 dBi) helps overcome cable loss

Installation Instructions

1. Determine the length of cable required to connect each antenna to the receiver or antenna/power distribution system. Use the shortest length of cable possible, because longer cable runs increase power and signal loss.
Important: Only use low-loss reverse SMA cables to prevent signal loss.
2. Use reverse SMA cables to connect an antenna to each of the ANTENNA A and ANTENNA B ports of the receiver or antenna/power distribution system.

3. Position antennas so there is nothing obstructing the line of sight to the transmitter, including the audience. Point antennas at the transmitters, with the rear side facing sources of interference (Wi-Fi access points, for example). Placing them farther apart improves diversity performance. For optimal performance, minimize the distance between the transmitters and the antennas by placing antennas near the stage, rather than at a front-of-house position.

Note: Always perform a walk-around test to verify coverage before using a wireless system during a speech or performance. Experiment with antenna placement to find the optimum location. If necessary, mark any trouble spots and ask presenters or performers to avoid those areas.



Cable Selection

Cable	Length	Type	Loss at 2.4 GHz
UA802-RSMA	0.6 m (2 ft.)	Reverse SMA	1 dB
UA806-RSMA	1.8 m (6 ft.)	Reverse SMA	1 dB
95C31342	3 m (10 ft.)	Reverse SMA	1.5 dB
UA825-RSMA	7.6 m (25 ft.)	Reverse SMA	3.3 dB

Cable	Length	Type	Loss at 2.4 GHz
UA850-RSMA	15.2 m (50 ft.)	Reverse SMA	6.4 dB
UA8100-RSMA	30.4 m (100 ft.)	Reverse SMA	6.8 dB

For additional technical assistance, call the Shure Customer Service Department.

Furnished Accessories

3 m (10 ft.) Reverse SMA Cable (1)	95C31342
Brass Adapter	31B1856

Optional Accessories and Replacement Parts

Remote Antenna Mounting Bracket Kit	UA505-RSMA
Frequency manager (antenna/power distribution system)	UA846Z2
Reverse SMA Passive Antenna Splitter (900 MHz ISM, DECT, 2.4 GHz)	UA221-RSMA
0.6 m (2 ft.) Reverse SMA Cable	UA802-RSMA
1.8 m (6 ft.) Reverse SMA Cable	UA806-RSMA
3 m (10 ft.) Reverse SMA Cable	95C31342
7.6 m (25 ft.) Reverse SMA Cable	UA825-RSMA
15.2 m (50 ft.) Reverse SMA Cable	UA850-RSMA
30.4 m (100 ft.) Reverse SMA Cable	UA8100-RSMA
Reverse SMA Bulkhead Adapters, lockwasher, nut	95A32436

Specifications

Frequency Range

<2:1 Voltage Standing Wave Ratio (VSWR)

2050 to 2700 MHz

Antenna Gain

@ 2.45 GHz, typical

8 dBi

3 dB Horizontal Beam Width

100 degrees

Efficiency

@2.45 GHz, typical

89 %

Impedance

50 Ω

Polarization

Linear

Front-to-back ratio

@ 2.45 GHz, typical

24 dB

Connector Type

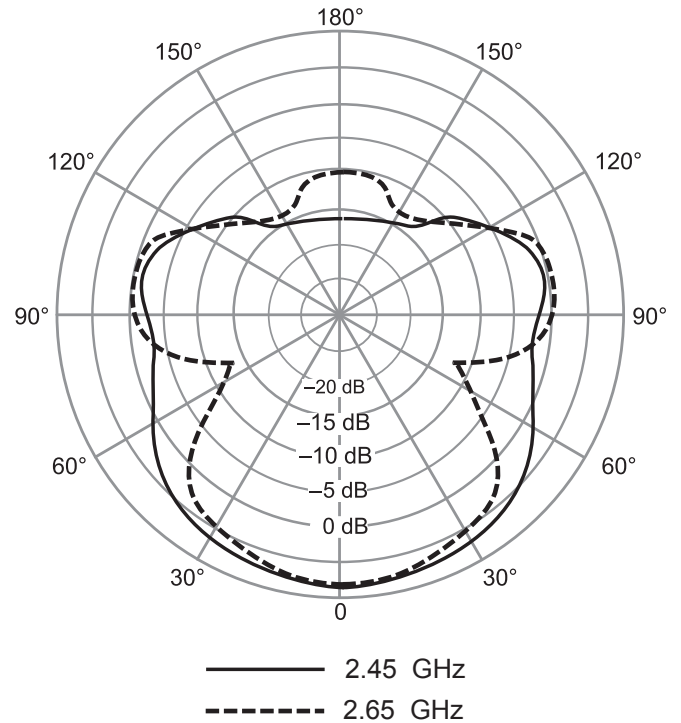
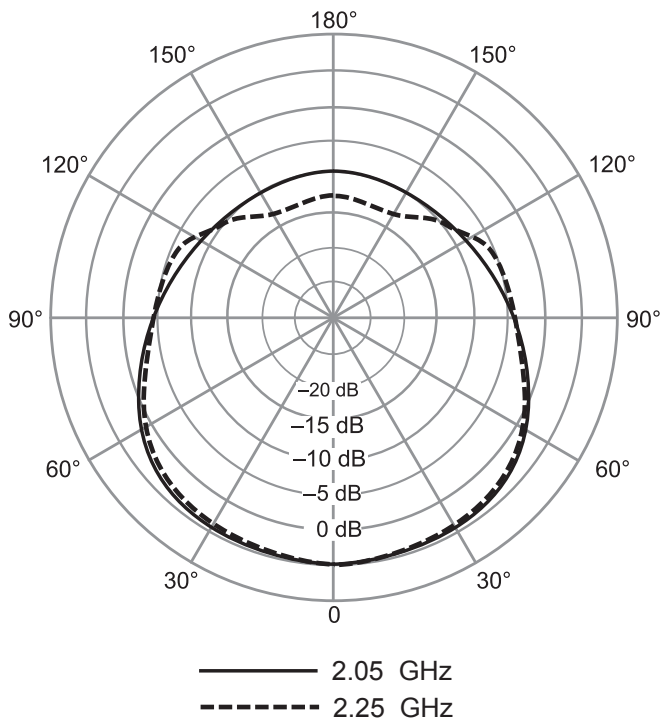
Reverse SMA

Dimensions

105 x 164 x 27.5 mm H x W x D

Net Weight

2.5 oz.



Polar Pattern

Certifications

This product meets the Essential Requirements of all relevant European directives and is eligible for CE marking.

The CE Declaration of Conformity can be obtained from:
www.shure.com/europe/compliance

Authorized European representative:
Shure Europe GmbH
Headquarters Europe, Middle East & Africa
Department: EMEA Approval
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