

5dBi UHF Concealed Antenna

SBA-U2505CA

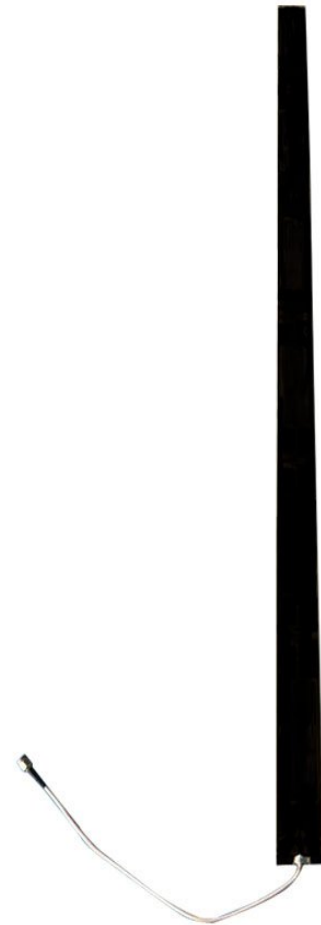
SBA-U2505CA is a slim 5dBi linear polarized UHF concealed antenna, engineered for discreet RFID installations within the 902–928 MHz frequency range. With its ultra-thin PCB design and wide 200° horizontal coverage, it is ideal for hidden or embedded tag reading scenarios in smart retail, libraries, or narrow spaces where conventional antennas are impractical.

Features and Benefits:

- Frequency Range: 902–928 MHz
- Gain: 5dBi for reliable short- to mid-range performance
- Linear Polarization for controlled tag orientation detection
- Beamwidth: 200° horizontal / 20° vertical
- VSWR ≤ 1.5 ensures signal efficiency
- Connector Type: SMA socket
- Max Input Power: 100W
- Ultra-thin PCB structure for concealed mounting
- Lightweight build (0.28 kg), easy to embed in shelves or enclosures
- Operating Temperature: -20°C to +60°C
- DC grounding for lightning protection

Applications:

- Hidden RFID reading in retail or smart shelves
- Library and file-tracking systems
- Access control points with space constraints
- Concealed inventory or asset management setups
- Kiosk and cabinet RFID integrations



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SPECIFICATIONS

Physical Parameter

| | |
|----------------------|---------------------|
| Dimensions | 815mm X 34mm X 5mm |
| Colour | Black |
| Weight | 0.5 Kgs (Gross) |
| Packaging Dimensions | 840mm X 50mm X 30mm |
| Material | PCB |

UHF Technical Parameters

| | |
|-----------------------|---------------------------------|
| Operating Frequency | 902-928 MHz |
| Gain | Up to 5 dBi |
| Beam Width | Horizontal: 200°, Vertical: 20° |
| VSWR | <=1.5 |
| Polarization | Linear |
| Input Impedance | 50 Ω |
| Maximum Input Power | 100 W |
| Lightening Protection | DC Grounding |
| Connector Type | SMA Socket |

Environmental Parameters

| | |
|-----------------------|------------------------------|
| Operating Temperature | -20°C to +60°C |
| Storage Temperature | -40°C to +85°C |
| Working Humidity | 5% to 95% RH No condensation |

Soochak Bharat, with its technical expertise in RFID technology, focuses on designing, developing, innovating, and deploying RFID hardware solutions.

*Read range is dependent on tag size and design.

*Soochak Bharat reserves the right to make changes in the above specifications without notice.

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