

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 \leq 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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