RFID Slim CP2525

SKU: RA-UC-SFF-252501

The RA-UC-SFF-252501 is a Radio Frequency Identification Antenna operating in the US-band from 900 MHz to 928 MHz, featuring a nominal gain of 9.0 dBic. It comes with an SMA Female connector output. One crucial feature is the low-profile design coming with a **total antenna thickness of only 14.5 mm**, which makes the well suited for flush-mounted application.

The antenna features **an excellent front to back ratio of more than 20 dB**, which makes it stand out from other antennas in the market. This antenna model plays a crucial role in enhancing the overall controlled system and ensures reliable communication, as well as radio frequency (RF) signals. The antenna is circular polarized (CP) and well-suited for applications in Inventory Management, Asset Tracking, Access Control, Vehicle Identification, Healthcare Systems, and Smart Shelves.

Technical Specification

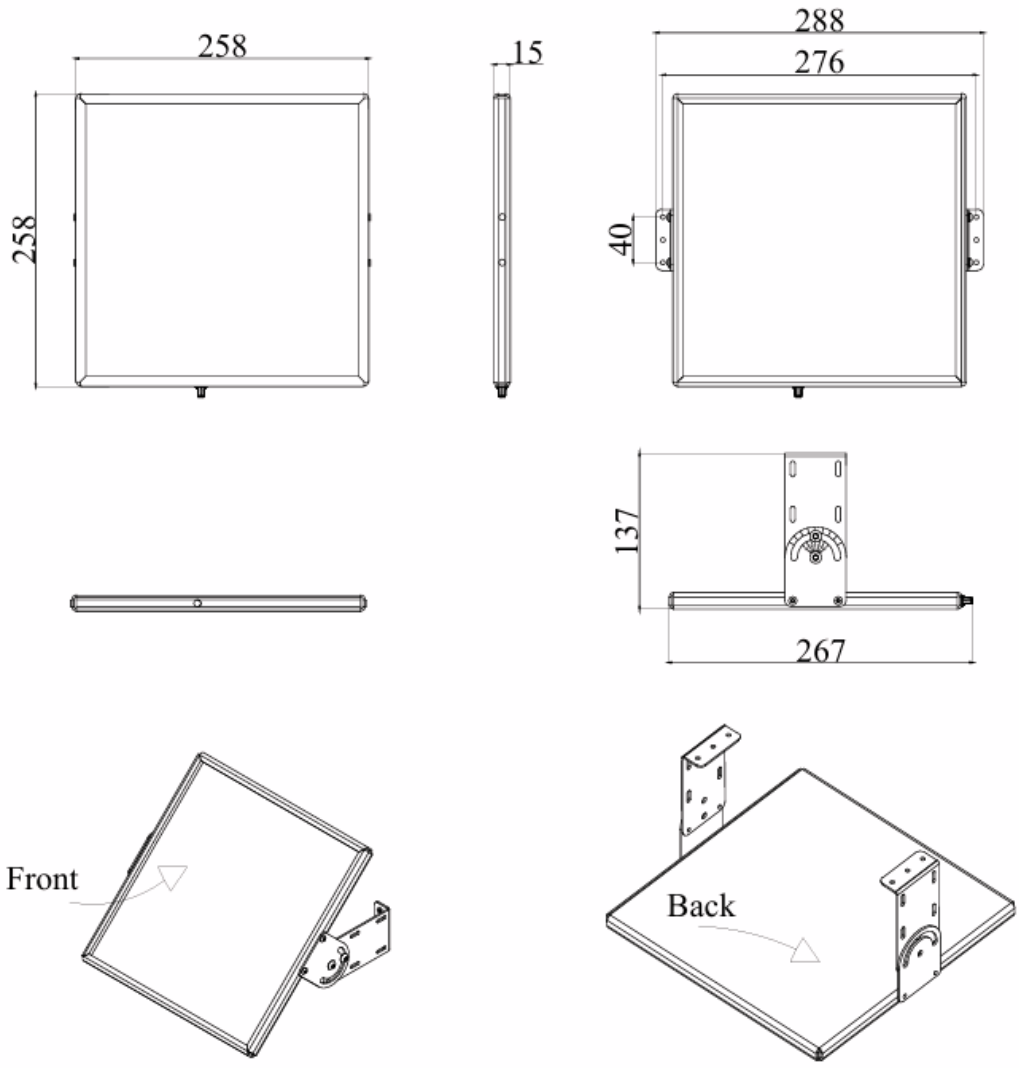
Electrical Specification	
Frequency, Min (GHz)	0.902
Frequency, Max (GHz)	0.928
Patch Type	Aluminum
Ground Type	Aluminum
Gain, Typ (dBic)	9.0
Polarization	RHCP (or LHCP)
Axial Ratio (typ.)	1.5 dB (Covering entire US band)
VSWR	≤ 1.1
Front to Back Ratio	> 20 dB
Impedance, (Ohm)	50

Interface	
Output Type	Coaxial
Connector	SMA
Connector Gender	Female
Mechanical Specification	
Cover	ABS
Size, H (mm)	14.5
Size, W (mm)	258
Size, L (mm)	258

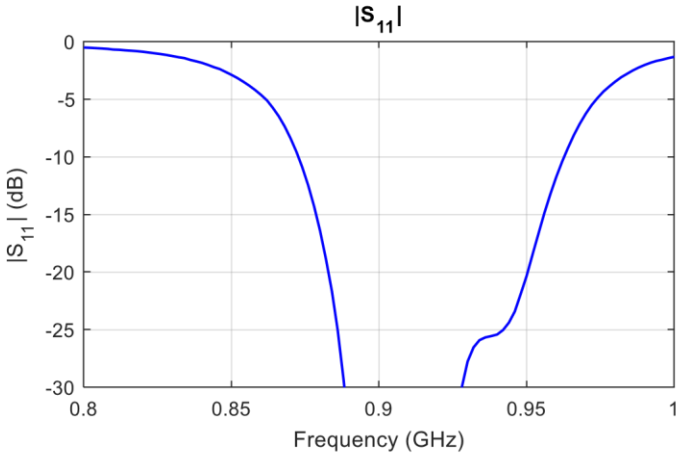
Additional Information

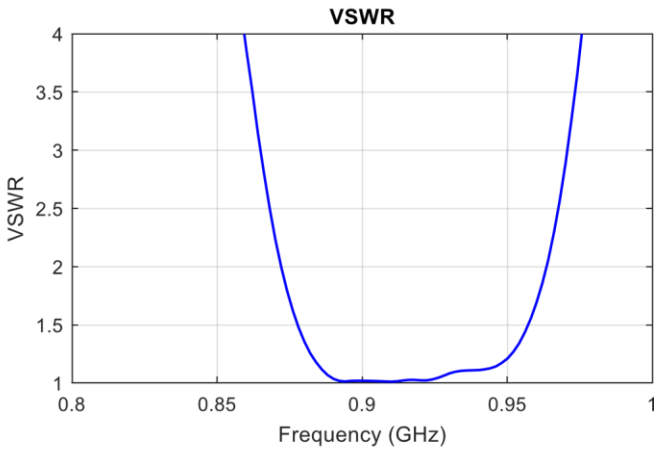
Application	Enhance overall system supervision and control assigned at dock doors, portals, outdoor gates
Solution for	Inventory management, asset tracking, access control, vehicle identification, healthcare systems, smart shelves

Outline Drawing

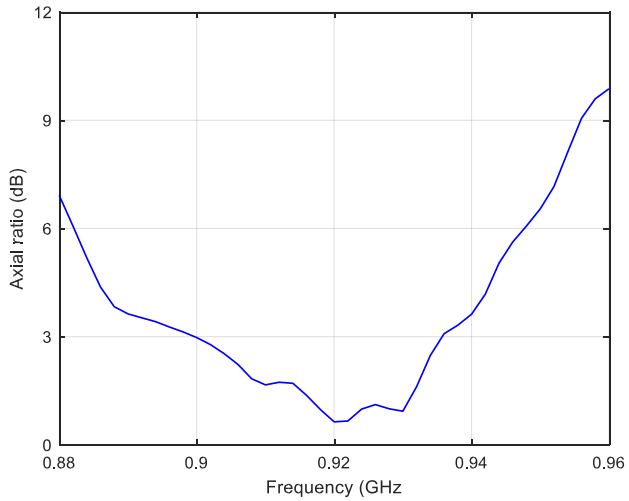


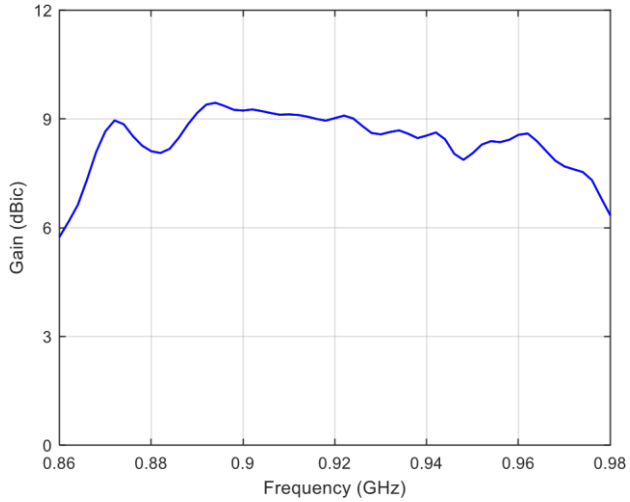
Typical Test Results – Reflection Coefficient and VSWR:





Axial Ratio – Gain (dBic):





Measured normalized radiation pattern at 915 MHz: