

SlimLine 5100

UHF Portal for People, Bags and other Moving Objects

Overview

An easy to assemble portal, for identifying people, bags and other moving objects. Four flat panel antenna arrays provide a wide even coverage picking up RFID tagged objects whether they are on trolleys or being carried/ pulled through by passengers. The angle of the side panels can be easily adjusted to optimize the field coverage in, and behind, the portal.



Applications

Trolley, bag, people and other moving object identification. Any place where people and/or bags pass through a doorway or channeled choke point e.g. Arrival Hall Quarantine and Customs processing.

Electrical Specifications

Each antenna array has the following characteristics:

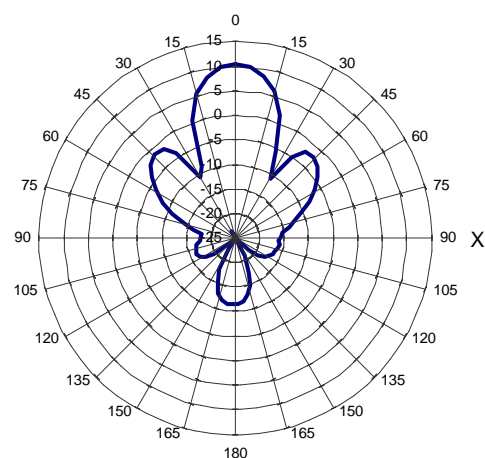
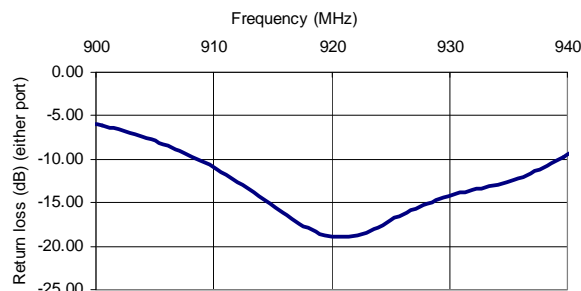
- Linear (horizontal and vertical - dual input). A circular version will also soon be available.
- Peak gain: 10 dBi
- 3dB beamwidth: 24° in $\phi=0^\circ$ plane; 74° in $\phi=90^\circ$ plane
- Front to back: 22 dB
- Pattern: See diagrams
- Return loss: See diagram. VSWR < 2:1 (typical)
- Frequency: 902-928 MHz (a version is also available for the 864–868 MHz band.)

Mechanical/Environmental Specifications

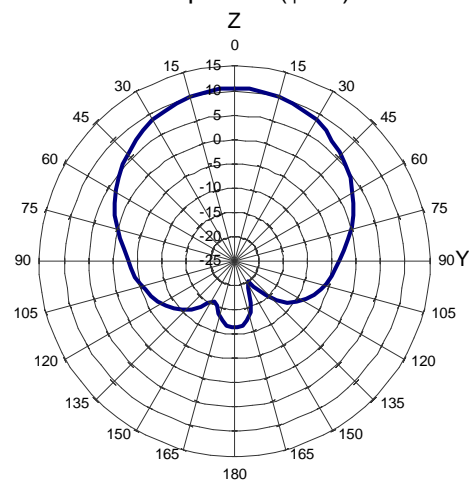
Dimensions: Sides: 2100x304x44mm
Top: 1800x304x 150mm

- Side panel angle is adjustable up to 90 degrees
- Bulkhead connector: SMA female
- Operation and Storage Temperatures: 0 °C to +50 °C, -30 °C to +60 °C

Antenna Array characteristics



Total E-field elevation pattern ($\phi=0^\circ$)



Total E-field elevation pattern ($\phi=90^\circ$)

Contact details: