PART NUMBER RA-UL-SFF-1204001

RFID Slim LP12040



FREQUENCY RANGE

0.902 to 0.928 GHz

GAIN, TYP

17 dBi

DIMENSIONS

1218 × 428 × 12.5 mm

The RFID Slim LP12040 is a 12.5 mm thin UHF RFID panel antenna covering 0.902 to 0.928 GHz with 17 dBi typical gain and linear polarization. Its elongated 1218 × 428 × 12.5 mm acrylic-covered body gives a narrow 13° x 37° beam with a front to back ratio above 20 dB, suited to installations where tag orientation is fixed. An SMA Female connector and 10 W maximum power suit warehouse, retail inventory, asset tracking and access control installations.

APPLICATIONS

- Warehouse Management
- Retail Inventory
- Asset Tracking
- Library Management
- Access Control

FEATURES

01 17 dBi typical gain across 0.902 to 0.928 GHz

02 Linear polarization for applications where tag orientation is fixed

03 Narrow 13° x 37° beamwidth with front to back ratio > 20 dB

04 VSWR ≤ 2.0 and 10 W maximum power

05 1218 × 428 × 12.5 mm low-profile acrylic cover

06 SMA Female connector

Technical specifications

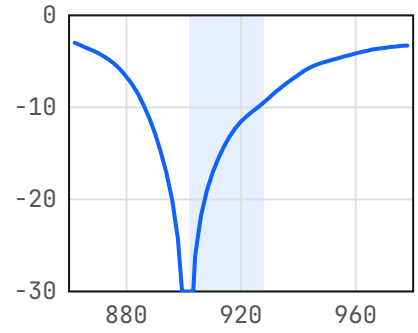
RA-UL-SFF-1204001

Frequency Range	0.902 to 0.928 GHz
VSWR	≤ 2.0
Gain, Typ	17 dBi
Power Max	10 W
Polarization	Linear
Dimensions	1218 × 428 × 12.5 mm
Connector	SMA Female
Cover	Acrylic

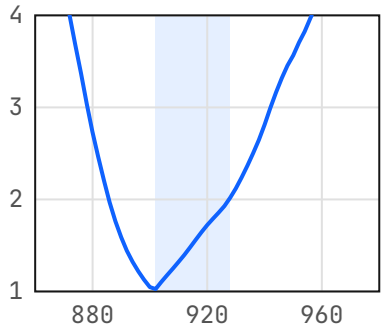
Front to Back Ratio	> 20 dB
Impedance	50 Ω
3-dB Beamwidth (XZ plane)	13°
3-dB Beamwidth (YZ plane)	37°
Sidelobe (typ.)	10 dB

TYPICAL TEST RESULTS

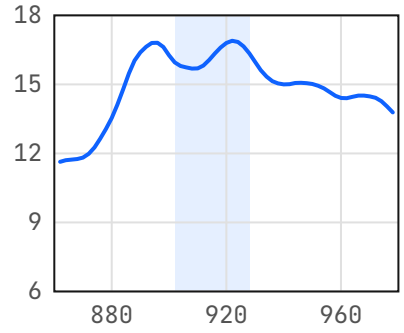
S11 (dB)



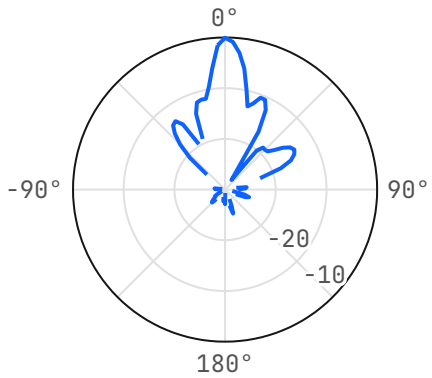
VSWR



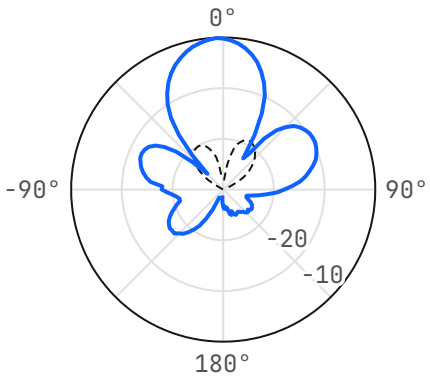
Realized gain (dBi)



Pattern, xz plane (dB)



Pattern, yz plane (dB)



Co-Pol ---- X-Pol

Measured data, redrawn from the technical data sheet RA-UL-SFF-1204001 v1.2. Shaded band: 902 to 928 MHz. Radiation patterns are normalized and measured at 915 MHz.