PART NUMBER RA-UC-SFF-622601

RFID Slim Low Sidelobe CP6226



FREQUENCY RANGE

0.902 to 0.928 GHz

GAIN, TYP

12 dBic

DIMENSIONS

620 × 260 × 13 mm

The RFID Slim Low Sidelobe CP6226 is a 13 mm thin UHF RFID panel antenna covering 0.902 to 0.928 GHz with 12 dBic typical gain. Its low sidelobe level (< −15 dB) keeps energy focused in the main beam, while RHCP circular polarization with a 1.5 dB typical axial ratio tolerates varied tag orientation. A 620 × 260 × 13 mm ABS-covered body with SMA Female connector suits warehouse, retail inventory, library and access control installations.

APPLICATIONS

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

FEATURES

01 Low sidelobe level (< −15 dB) for a focused read zone

02 12 dBic typical gain across 0.902 to 0.928 GHz

03 RHCP circular polarization with 1.5 dB typical axial ratio

04 VSWR ≤ 1.4 and 10 W maximum power

05 620 × 260 × 13 mm slim ABS cover with SMA Female connector

Technical specifications

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ELECTRICAL SPECIFICATION

Operating frequency	902 to 928 MHz
Patch Type	Aluminum
Ground Type	Aluminum
Gain (typical)	12.0 dBic
Polarization	RHCP (or LHCP)
Axial Ratio (typical)	1.5 dB
VSWR	≤ 1.4
Front to Back Ratio	> 20 dB
Impedance	50 Ω
3-dB beamwidth (XZ plane)	33 deg
3-dB beamwidth (YZ plane)	60 deg
Sidelobe (typical)	15 dB

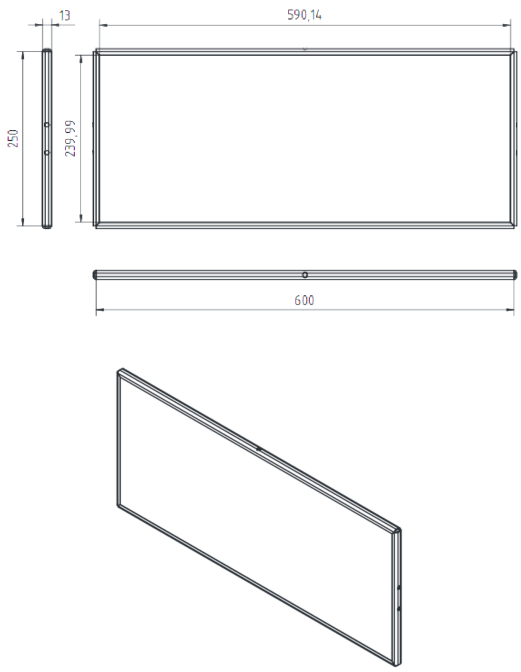
INTERFACE

Output Type	Coaxial
Connector	SMA
Connector Gender	Female

MECHANICAL SPECIFICATION

Cover	ABS
Size (L × W × H)	620 × 260 × 13 mm
Weight	1.56 kg
Operating and Storage temperature	−300 to +600 C / −220 to 1490 F
Environmental Rating	IP65
Power max	10 W

OUTLINE DRAWING (MM)

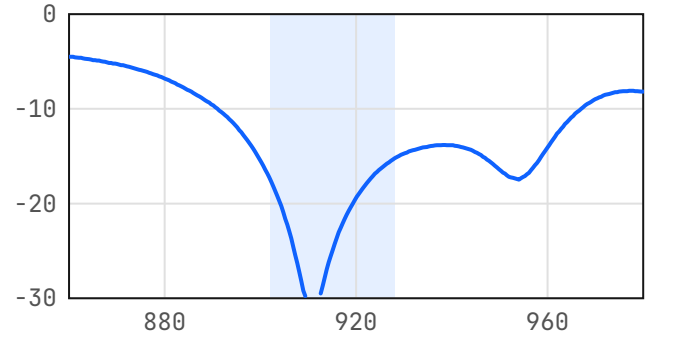


Specifications and drawing from the technical data sheet RA-UC-SFF-622601.

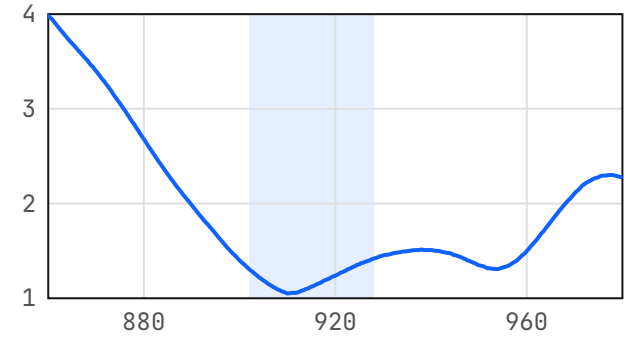
Typical test results

RA-UC-SFF-622601

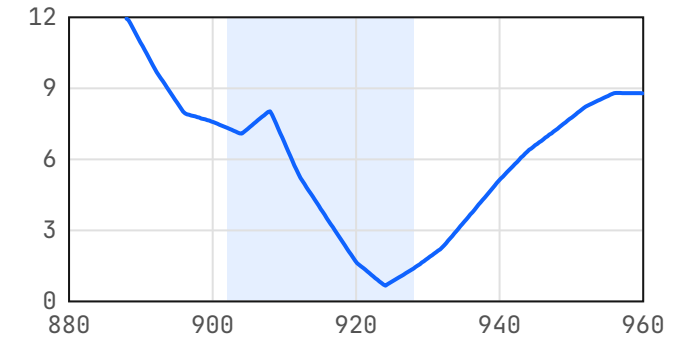
S11 (dB)



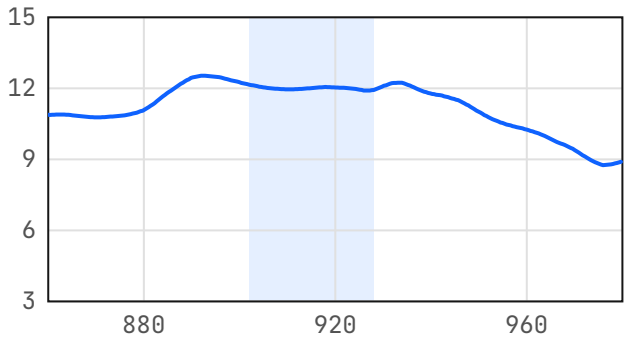
VSWR



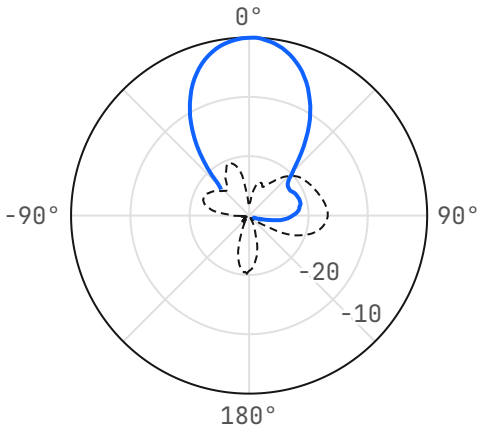
Axial ratio (dB)



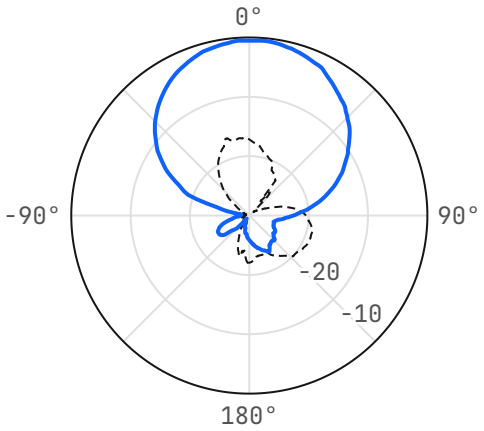
Realized gain (dBic)



Pattern, xz plane (dB)



Pattern, yz plane (dB)



RHCP ---- LHCP

Measured data, redrawn from the technical data sheet RA-UC-SFF-622601. Shaded band: 902 to 928 MHz. Radiation patterns are normalized and measured at 915 MHz.