PART NUMBER RA-W-SFN-302001

RFID Slim Near Field A3020



FREQUENCY RANGE

860 to 960 MHz

READ RANGE

Up to 150 mm (depends on reader power and environment)

PEAK GAIN

−2 dBi

The RFID Slim Near Field A3020 is a 12 mm thin near-field UHF RFID antenna for the universal 860 to 960 MHz band. A −2 dBi peak gain keeps the read zone close to the antenna surface , tags are read within about 150 mm, while tags as close as 100 mm away are rejected , and VSWR stays below 1.3:1 across the full band. It reads tags on metals and liquids and through most packaging. The 300 × 200 × 12 mm body (plastic top, aluminium bottom) with SMA Female connector weighs 500 g and handles up to 2 W (33 dBm).

APPLICATIONS

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

FEATURES

01 Near-field design with −2 dBi peak gain, reading tags within 150 mm

02 Universal 860 to 960 MHz RFID band

03 Resists interference from surrounding tags within 100 mm

04 Reads tags on metals, liquids and through most packaging

05 VSWR < 1.3:1 across the full band, 2 W (33 dBm) maximum power

06 300 × 200 × 12 mm black radome (plastic top, aluminium bottom) with SMA Female connector

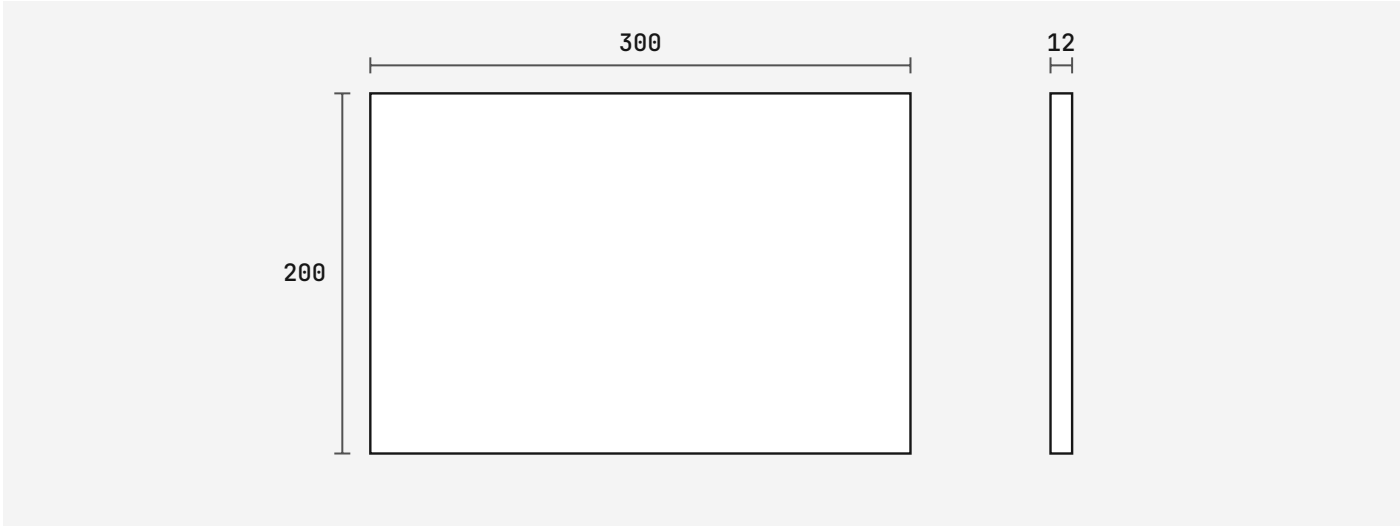
Technical specifications

RA-W-SFN-302001

Frequency Range	860 to 960 MHz
VSWR	< 1.3:1 full band
Peak Gain	−2 dBi
Power max	2 W (33 dBm)
Dimensions	300 × 200 × 12 mm
Connector	SMA Female
Radome Material	Plastic (top), aluminium (bottom)

Impedance	50 Ω
Read Range	Up to 150 mm (depends on reader power and environment)
Weight	500 g
Packaged Dimensions	350 × 250 × 15 mm
Packaged Weight	800 g
Radome Colour	Black

OVERALL DIMENSIONS (MM)



Outline of the overall size, not a detailed drawing.