

R9025-LPF-SSF

Circular Polarized UHF Antenna
FCC Version

RFMAX
PROFESSIONAL GRADE
WIRELESS GEAR

RFMAX now offers a compact footprint of only 150 mm / 5.9 inch square in a very smart-looking design. With a 1.5 ft. wider read range than most other antennas of similar size in the market, the circularly polarized antenna creates a new benchmark for multi-purpose UHF RFID antennas. IP68 rated and built to high standard for quality and robustness, can be used for permanent outdoor applications. Its pleasing aesthetics and timeless design blends beautifully with most interiors, which makes the R9025-LPF-SSF very suitable for customer facing environments.



150mm / 5.9in.square footprint.

IP68rating for permanent outdoor use & industrial applications.

Aesthetically appealing design.



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Physical / Environmental Specifications

Dimensions (L x W x D):	150 mm x 150 mm x 14 mm 5.9 " x 5.9 " x 0.55 "
Weight:	0.25 kg / 0.55 lbs.
Radome Material:	UV-Resistant ABS
Environmental Rating:	IP68 (with IP67 cable)
Operating / Storage Temperature:	-30° to 65°C / -4° to +149°F
Mounting	Flush mount
Connector Type / position	SMA female side connector

Electrical Specifications

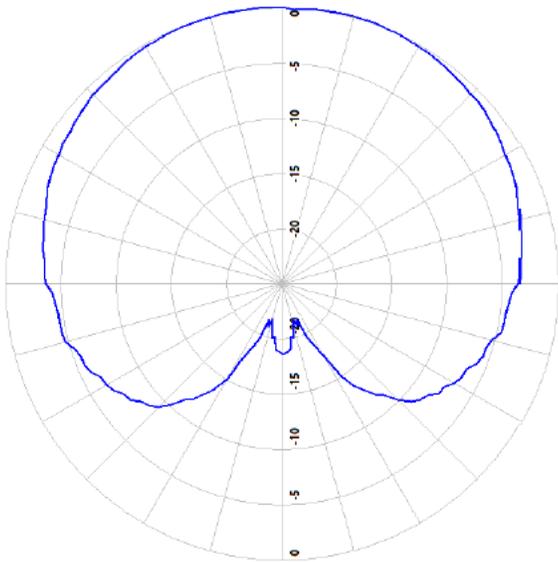
Frequency Range:	865-868 MHz / 902-928 MHz
Polarization	RH Circular
Far-field Gain:	5.5 dBiC
Far-field 3dB beamwidth:	115° in both places
Typical VSWR:	1.4
Front to Back:	10 dB
Typical Axial Ratio:	2 dB
Nominal Impedance:	50 Ω
Anti-static protection:	DC Grounded
Antenna Detection:	10k Ohm Resistor
Maximum Input Power:	6 W

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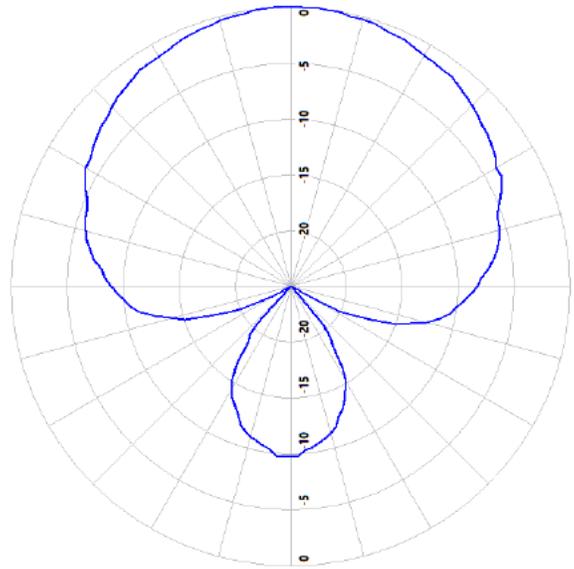
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E-field Radiation Pattern



XZ-plane



YZ-plane

The R9025-LPF-SSF is designed to support flush mount. The flush mounting holes are spaced and can accommodate M6 and ¼" type bolts and M4 screws.

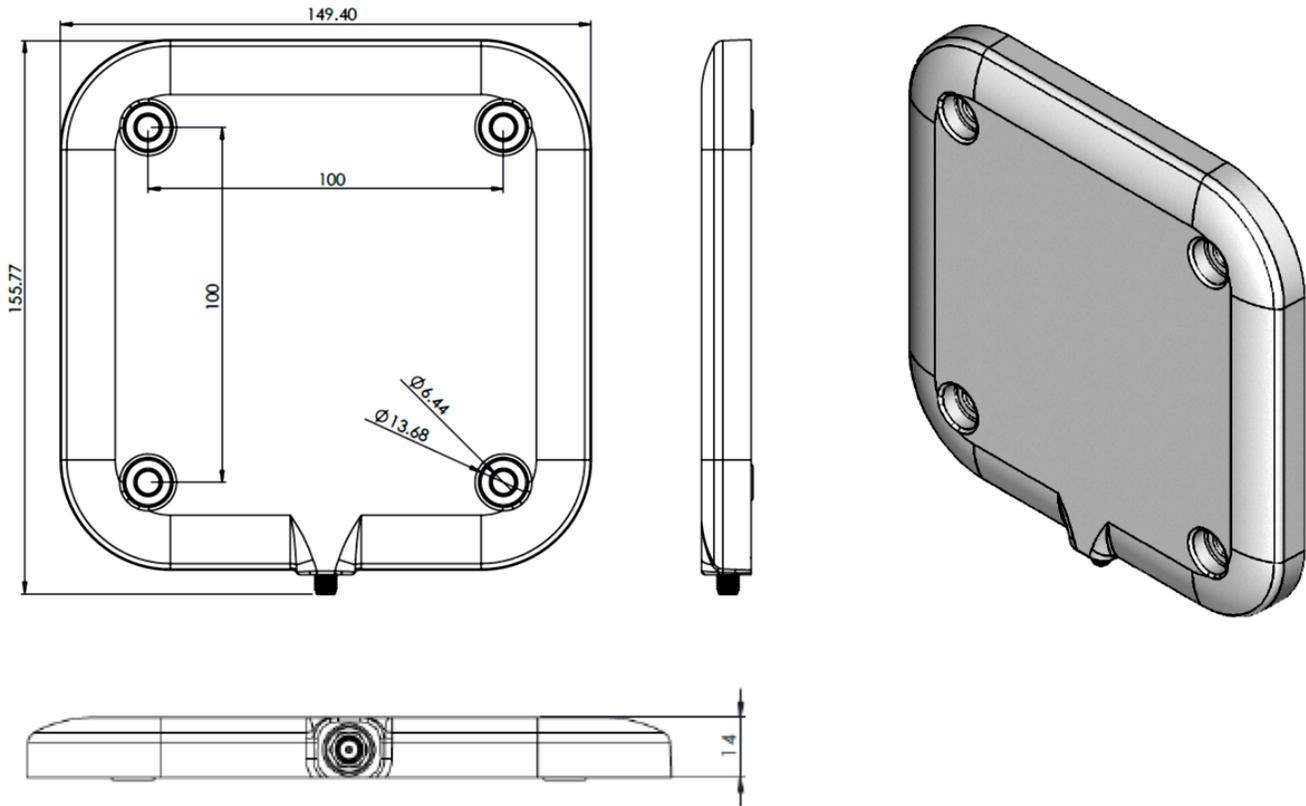


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Mechanical Dimensions



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Applications:

Kiosks and Point of Sale

The R9025-LPF-SSF antenna's RF radiation can be confined in a zone while operating at low power. This is practically achievable due to its low gain nature. The antenna is best suited for kiosks and POS applications where a confined read zone is a key requirement. The antenna is aesthetically appealing and fits into every POS environment.



Waste Management

The R9025-LPF-SSF is IP68 rated, meaning it is suitable for permanent outdoor installations. The 'all-plastic' housing prevents the antenna from corroding. The antenna is moderately impact resistant and can be water blasted. The $\sim 100^\circ$ beam-width of the R9025-LPF-SSF antenna makes wheelie bin detection easy and straight-forward. The antenna can be cleaned with cleaning agents and it would not be adversely affected. The physical size of the antenna is small and thus installation in waste manage-



Retail

The R9025-LPF-SSF can easily be deployed in space constrained environments such as retail. With its superb aesthetics and compact design, the antenna blends well into the retail back drop.



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Medical & Pharmaceutical

The R9025-LPF-SSF can easily be deployed in space constrained environments such as retail. With its superb aesthetics and compact design, the antenna blends well into the retail back drop.

