

# RWC8201A

## Circular Polarized Antenna



### GENERAL DESCRIPTION

Polarized waves oscillate in one direction. Circular polarization is a wave in which the angle of an electric vector rotates about an imaginary line traveling in the direction of propagation of the wave.

The RWC8201A is a circular polarized antenna which has a circular polarized wave. It provides a good test environment to measure the RF characteristics of the DUT without sensitive positioning problems and the angle of the DUT in a shielding enclosure because it has a low gain and its polarized main beam is isotropically propagated forward. It is designed to be used alone or mounted on the lid of RWC7100A, which has very high shielding effectiveness of more than 100dB.

### SPECIFICATIONS

Polarization : RHCP, LHCP

Frequency : 700 - 8500MHz

Efficiency: 53.8%@0.9GHz

72.7%@2.4GHz

85.6%@5.8GHz

Peak Gain: 1.5dBi@0.9GHz

5.8dBi@2.4GHz

6.2dBi@5.8GHz

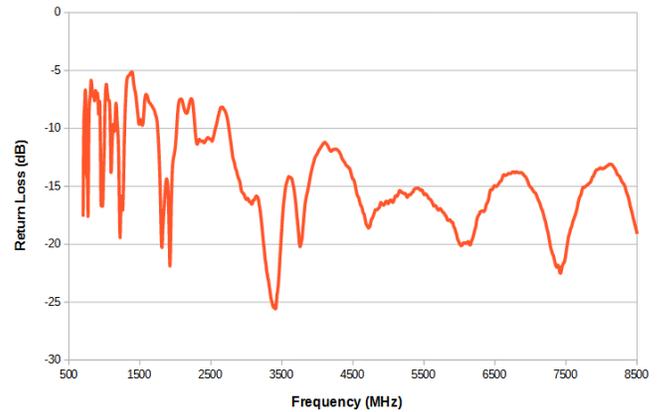
Interface : SMA(F)

Weight: 232g

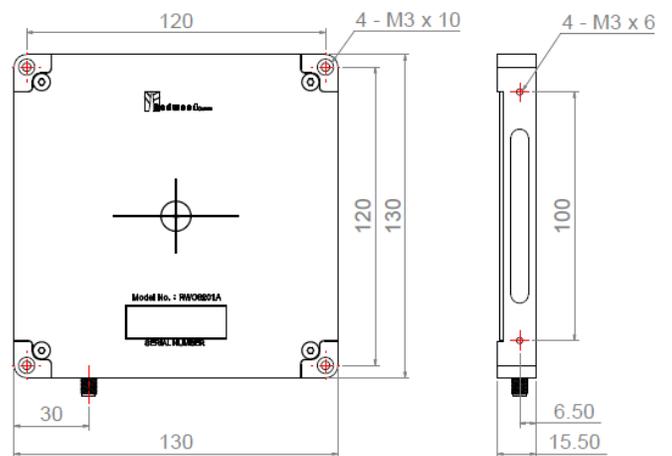
Dimension (W x D x H mm) : 130x130x15.5

### RF CHARACTERISTICS

#### Return Loss (RHCP)



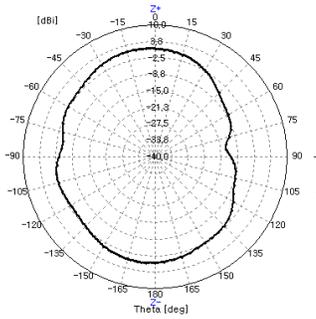
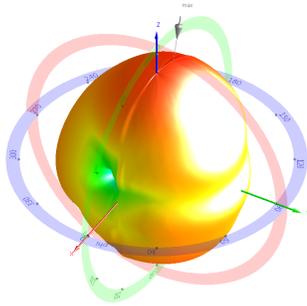
### MECHANICAL DRAWING



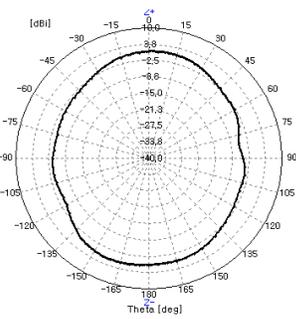
(Unit: mm)

Antenna Radiation Patterns

@900MHz

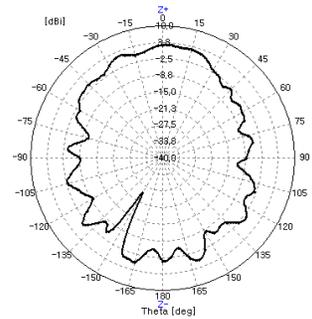
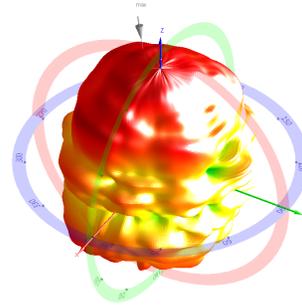


XZ Plane

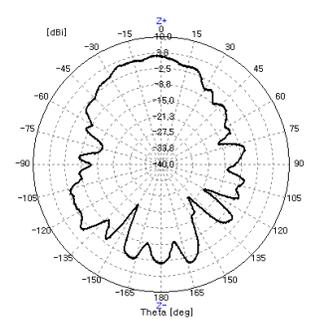


YZ Plane

@5800MHz

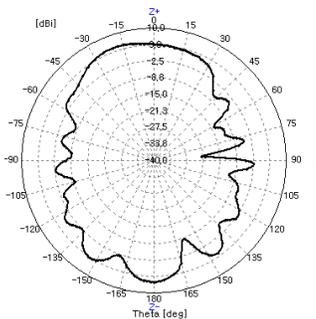
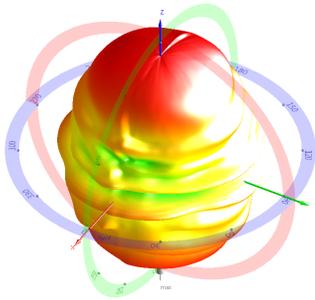


XZ Plane

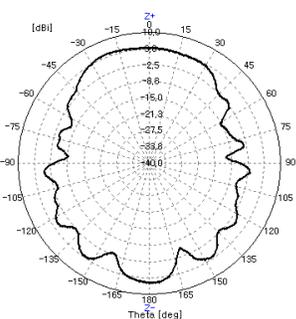


YZ Plane

@2400MHz

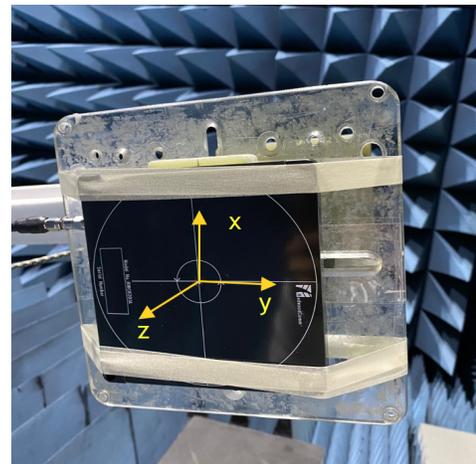


XZ Plane



YZ Plane

Test Setup



ORDER CODE

RHCP Antenna : C8201A-00

LHCP Antenna : C8201A-01

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<https://www.redwoodcomm.com/>

All specifications are subject to change without notice.