## RSRA698/2700SSM

This LTE antenna is a high-end design that provides excellent performance in a tiny package. It offers higher efficiency at the lower frequency bands on a smaller ground plane than competitive products. This equates to better range in a smaller product size, saving valuable real estate in the design. This combination of high performance and small size makes this antenna ideal for small devices, particularly when used for the Internet of Things (IOT) and with the CAT-M1 and NBIOT standards. Also covering all major bands used by LTE, 3G and 4G cellular technologies.

## Features:

- Covers all common 4G/3G/2G and LTE bands
- Tilt / Swivel Joint for optimum positioning
- Small, unobtrusive profile



## RSRA698/2700SSM

Electrical Specifications

| Frequency 1 | $698-960 \mathrm{MHz}$ |
| :---: | :---: |
| Frequency 2 | $1710-2170 \mathrm{MHz}$ |
| Frequency 3 | $2300-2400 \mathrm{MHz}$ |
| Frequency 4 | $2500-2700 \mathrm{MHz}$ |
| Frequency 5 | $3400-3600 \mathrm{MHz}$ |
| Frequency 6 | $3600-3800 \mathrm{MHz}$ |
| Gain 1 | 5.8 dBi |
| Gain 2 | 3.7 dBi |
| Gain 3 | 2 dBi |
| Gain 4 | 1.4 dBi |
| Gain 5 | 5.2 dBi |
| Gain 6 | 6.1 dBi |
| Polarization | Linear |
| Radiation | Omni-Directional |
| Impedance | 50 Ohms |
| Max Power | 15 W |

Environmental Specifications

| Operating Temperature <br> $\left[{ }^{\circ} \mathrm{C}\right]$ | -40 to 70 |
| :---: | :---: |
| Storage Temperature | -40 to 70 |
| $\left[{ }^{\circ} \mathrm{C}\right]$ |  |

Mechanical Specifications

| Color | Black |
| :---: | :---: |
| Connector | SMA Male (Plug) |
| Weight | 8 g |



## RSRA698/2700SSM <br> ANTENNAS <br> 1



## RSRA698/2700SSM $\underset{A N T E N A S}{P R}$

Edge of the Ground Plane, Straight

vswR


Return Loss


## RSRA698/2700SSM

Peak Gain


Average Gain


Radiation Efficiency


## RSRA698/2700SSM <br> 

Gain Plots - Edge of Plane, Straight

$1710-2170 \mathrm{MHz}$


## RSRA698/2700SSM

Gain Plots - Edge of Plane, Straight


$2300-2400 \mathrm{MHz}$

$2500-2700 \mathrm{MHz}$ $\qquad$


# RSRA698/2700SSM 



Gain Plots - Edge of Plane, Straight

$3400-3600 \mathrm{MHz}$

$3600-3800 \mathrm{MHz}$


# RSRA698/2700SSM <br> ANTENNAS 

Edge of the Ground Plane, Bent $90^{\circ}$

vSWR


Return Loss


## RSRA698/2700SSM

Peak Gain


Average Gain


Radiation Efficiency


## RSRA698/2700SSM <br> 

Gain Plots - Edge of Plane, Bent $90^{\circ}$

$700-960 \mathrm{MHz}$


1710-2170MHz


## RSRA698/2700SSM

Gain Plots - Edge of Plane, Bent $90^{\circ}$

$2300-2400 \mathrm{MHz}$


2500-2700MHz


## RSRA698/2700SSM <br> 

Gain Plots - Edge of Plane, Bent $90^{\circ}$


XZ-Plane Gain


YZ-Plane Gain


XY-Plane Gain
$3400-3600 \mathrm{MHz}$

$3600-3800 \mathrm{MHz}$


# RSRA698/2700SSM 

## Center of the Ground Plane, Straight



VSWR


Return Loss


## RSRA698/2700SSM

Peak Gain


Average Gain


Radiation Efficiency


## RSRA698/2700SSM <br> ANTENNAS

Gain Plots - Center of Plane, Straight



YZ-Plane Gain

$700-960 \mathrm{MHz}$


1710-2170MHz


## RSRA698/2700SSM

Gain Plots - Center of Plane, Straight


2300-2400MHz


2500-2700MHz


## RSRA698/2700SSM

Gain Plots - Center of Plane, Straight

$3400-3600 \mathrm{MHz}$

$3600-3800 \mathrm{MHz}$ $\qquad$


