

# Part No. X9003063-5GDNMW

## External 5G Fiberglass Antenna

700 - 960 MHz / 1710 - 2170 MHz / 2500 - 2700 MHz / 3300 - 5000 MHz  
 Supports: Cellular, 4G, 5G



KYOCERA AVX series of External Fiberglass Antennas deliver on the key needs of device designers for higher functionality and performance in outdoor environments.

This 5G External Fiberglass antenna covers cellular and 5G bands from 700 MHz to 5000 MHz with an IP67 waterproof rate. Designed for outdoor use, its robust IP rating and omnidirectional features make it ideal for thriving in any outdoor environment.

### External 5G Fiberglass Antenna

700 - 960 MHz  
 1710 - 2170 MHz  
 2500 - 2700 MHz  
 3300 - 5000 MHz

#### KEY BENEFITS

##### Quicker Time-to-Market

Standard part means fewer design changes with, simple implementation

Easy Assembly using N-type (Male) connector

##### Best in Class Performance

External antennas are designed to maintain high efficiency in a variety of device configurations

##### Great Flexibility

Standard connector to makes easy set-up

##### Environmental Compliance

Products are the latest RoHS version compliant.

#### APPLICATIONS

- Cellular
- Telematics
- Agriculture
- M2M, Industrial devices
- Smart Grid
- Metering
- Smart City

### Electrical Specifications

Typical Characteristics antenna measured in Free Space

Frequency (MHz)	Free Space			
	700-960	1710-2170	2500-2700	3300-5000
VSWR	< -10 dB	-13 dB	<-12 dB	<-4.5dB
Average Efficiency	41%	58%	57%	39%
Peak Gain	-0.1 dBi	3 dBi	2.8 dBi	2.1 dBi
Radiation Pattern	Omni-directional			
Power Handling	2 W			
Feed Point Impedance	50 ohm			

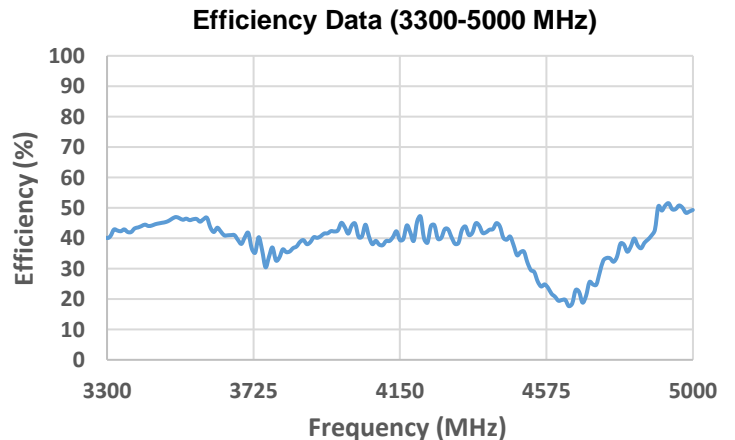
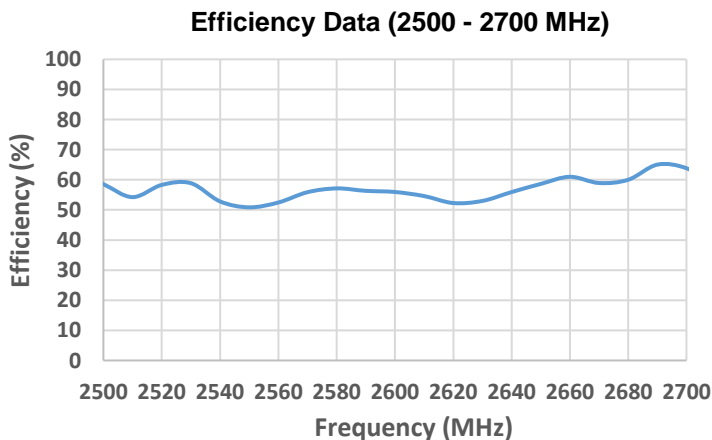
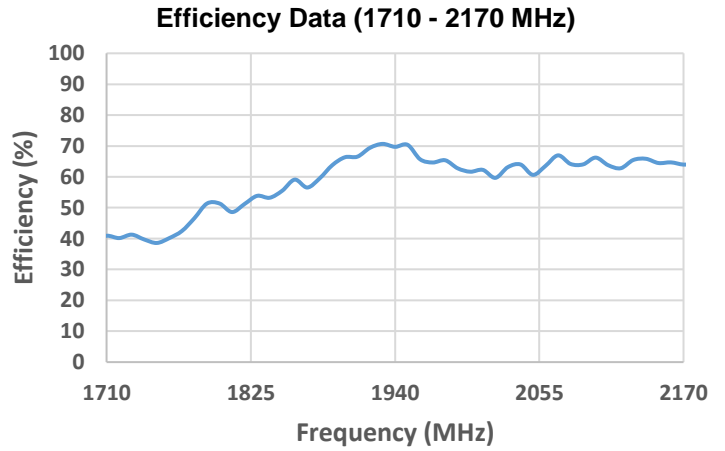
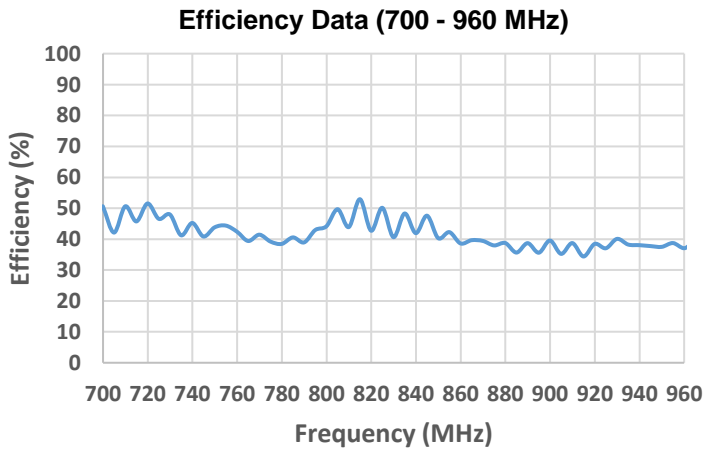
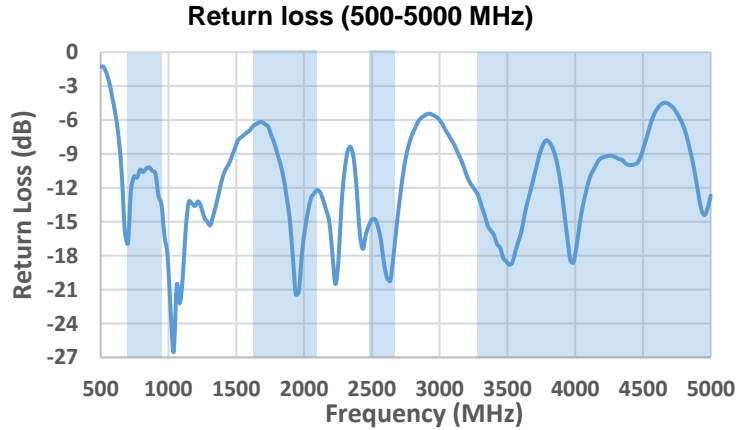
### Mechanical Specifications & Ordering Part Number

Ordering Part Number	X9003063-5GDNMW
Dimensions (mm)	225 (height) x 16.3 Ø
Mounting Type(s)	Connector Thread
Connector Type	N-type (Male)
Weight (grams)	84.8
Storage Temperature	-40°C to +80°C
IP Rating	IP67
Packaging	PE Bag+ carton box
Color	White

External 5G Fiberglass Antenna KYOCERA AVX Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

### VSWR and Efficiency

Typical performance measured in Free Space.

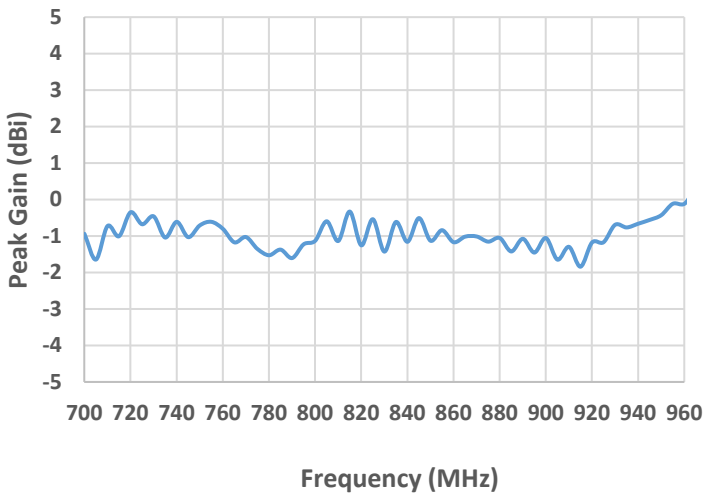


External 5G Fiberglass Antenna KYOCERA AVX Antenna Specifications.  
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

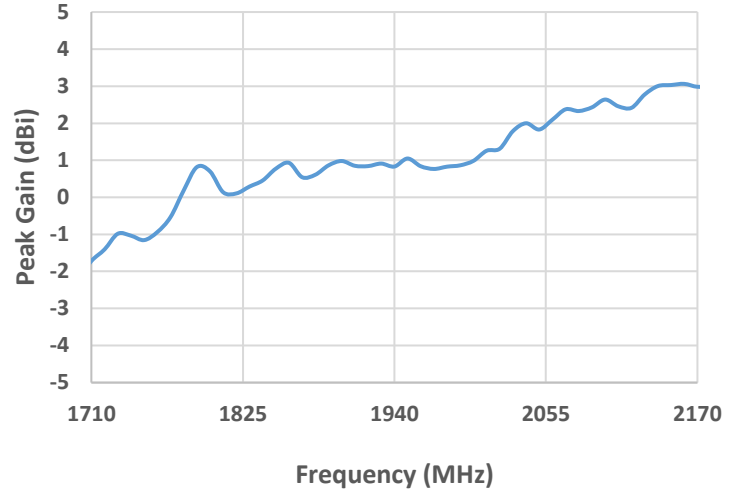
**Peak Gain Plots**

Typical performance measured in Free Space.

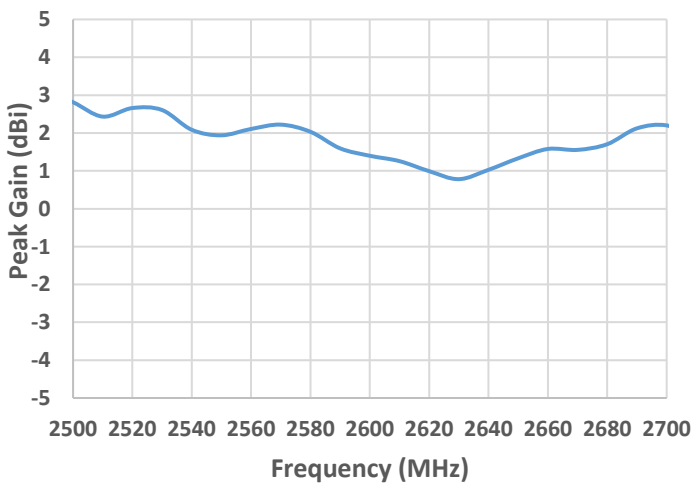
**Peak Gain (700-960 MHz)**



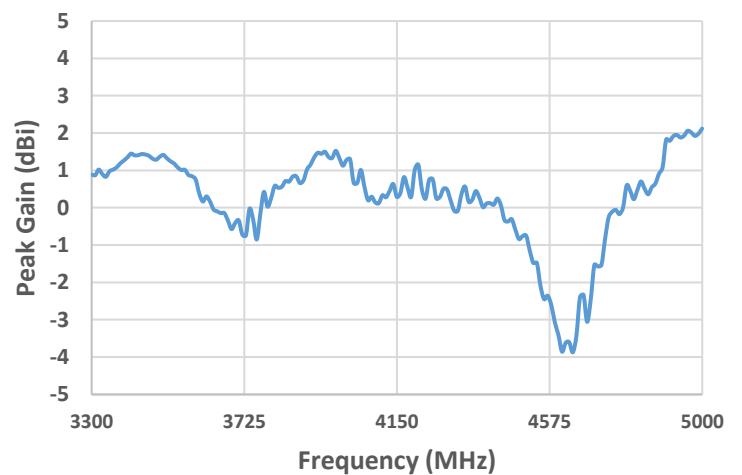
**Peak Gain (1710-2170 MHz)**



**Peak Gain (2500-2700 MHz)**



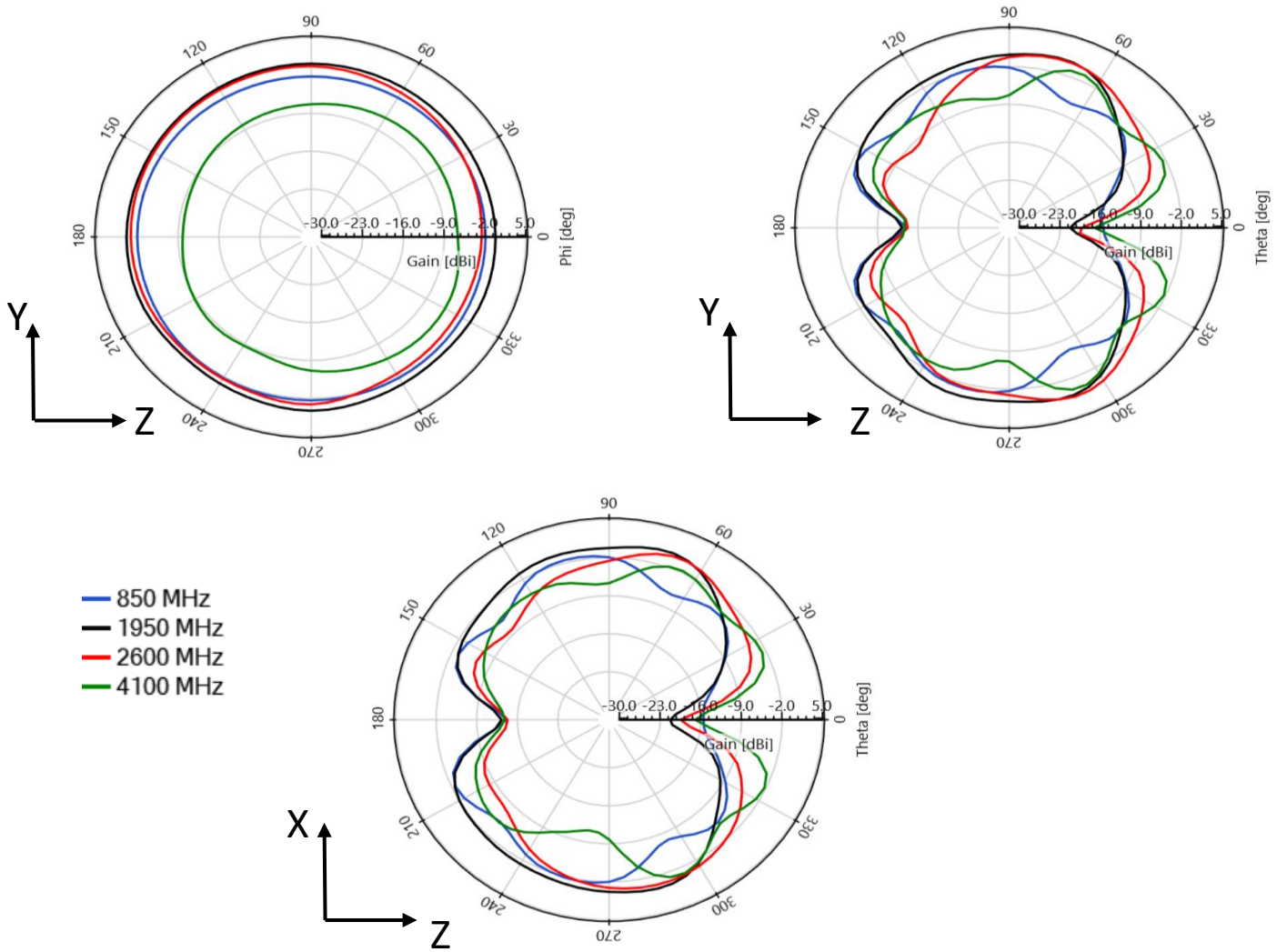
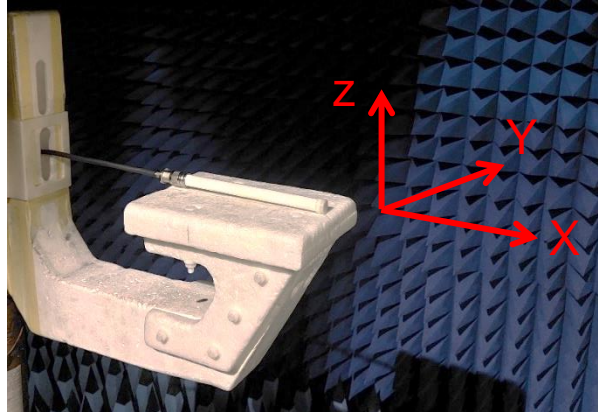
**Peak Gain (3300-5000 MHz)**



External 5G Fiberglass Antenna KYOCERA AVX Antenna Specifications.  
 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

**Antenna Radiation Patterns – Low / High Band**

Typical performance X9003063-5GDNMW performance in Free Space (at 850 MHz, 1950 MHz, 2600 MHz, 4100 MHz)

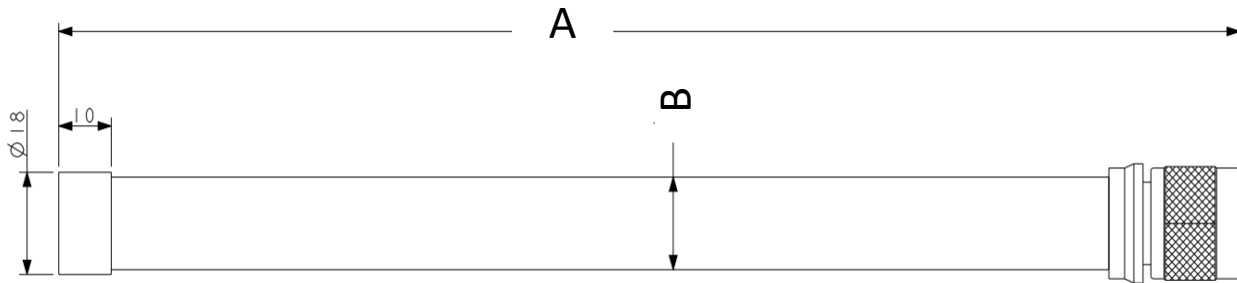


External 5G Fiberglass Antenna KYOCERA AVX Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

### Mechanical Specifications

Typical antenna dimensions in mm.

Part Number	A	B (Ø)	Connector
X9003063-5GDNMW	225 ± 2.0	16.3	N TYPE MALE



Items	Description
1	N-type (Male) Connector
2	Fiber Glass Tube
3	Cover

