

ERF4107, GPS/LTE/Wi-Fi combi antenna, 3x SMA Male connector

Features

Electrical Properties

Parameter:		Description	
GPS	Dielectric Antenna	Center Frequency:	1575.42 ± 3 MHz
		Band Width:	CF± 5 MHz
		Nominal Impedance:	50 Ω
		Polarization:	RHCP
		V.S.W.R.	< 1.5
		Gain:	2 dBi (Zenith)
		Axial Ratio:	3dB (max)
	LNA	Gain:	28 ± 2dB
		Noise Figure:	< 1.5dB
		VSWR:	< 2.0
		Supply Voltage:	2.2 ~ 5V DC
	Current Consumption:	<15mA	
LTE	Frequency Band:	698 ~ 960 / 1710 ~ 2690 MHz	
	Polarization:	Linear	
	Gain:	2.0 dBi	
	V.S.W.R.	< 2.0	
	Nominal Impedance:	50 Ω	
Wi-Fi	Frequency Band:	2400 ~ 2483.5 / 4900 ~ 5825 MHz	
	Polarization:	Linear	
	Gain:	2 dBi	
	V.S.W.R.	< 2.0	
	Nominal Impedance:	50 Ω	

Mechanical Properties

Parameter:	Description
Antenna Type:	External Antenna
Mounting Method:	Screw Type (M12 mounting) , and adhesive tape
Connector Type:	3x SMA (Male)
Antenna Dimensions:	81.3 φ mm ± 1
Antenna Color:	Black
Cable Length:	100 cm ± 0.5
Cable Type:	RG174
Operating Temperature Range:	-40°C~+85°C
Storage Temperature Range:	-40°C~+85°C
Ingress Protection:	IP65 ~ IP66 (exluding cable outlet)

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**Typical applications**

- M2M applications
- 4G/3G/2G
- NB-IoT/CAT-M
- Wi-Fi
- Bluetooth
- Zigbee
- GPS / GNSS



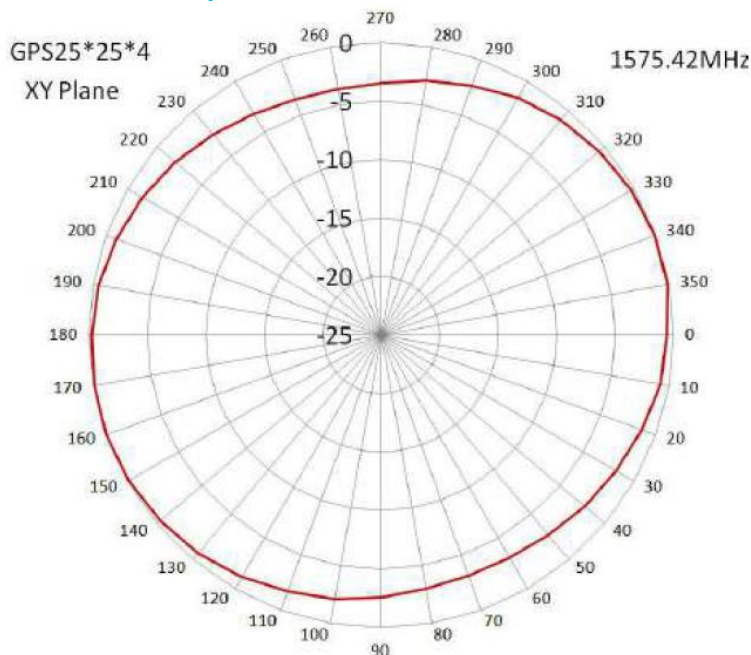
**Description**

The ERF4107 antenna is Combi “Puck” antenna with a M12 mounting , 1m cable and 3 SMA Male connectors. Each SMA Male connector has a dedicated supported frequency, either being LTE, GPS or Wi-Fi, so please take care when mounting.

The antenna can be used for applications such as, M2M, cellular, Wi-Fi, Bluetooth, GNSS/GPS an many more.

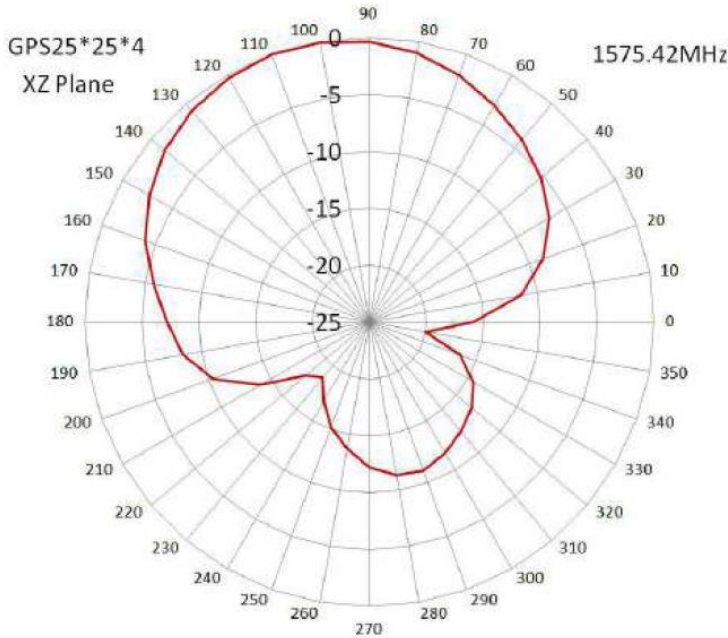
**Antenna Properties**

**GPS Antenna XY plane**

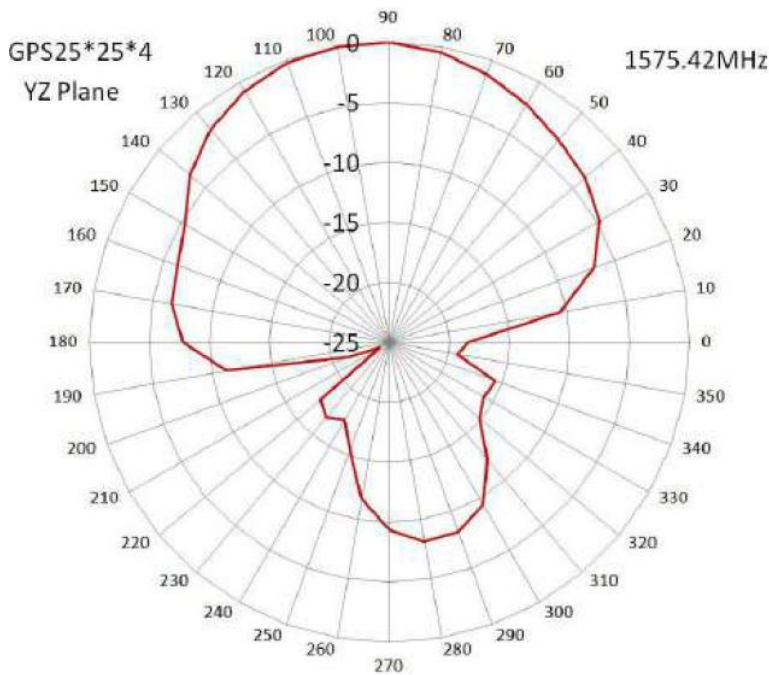


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GPS Antenna XZ plane

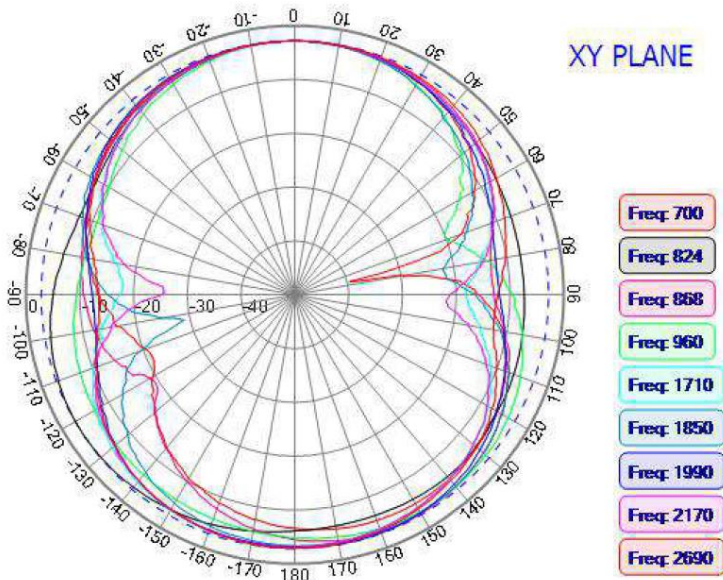


GPS Antenna YZ plane

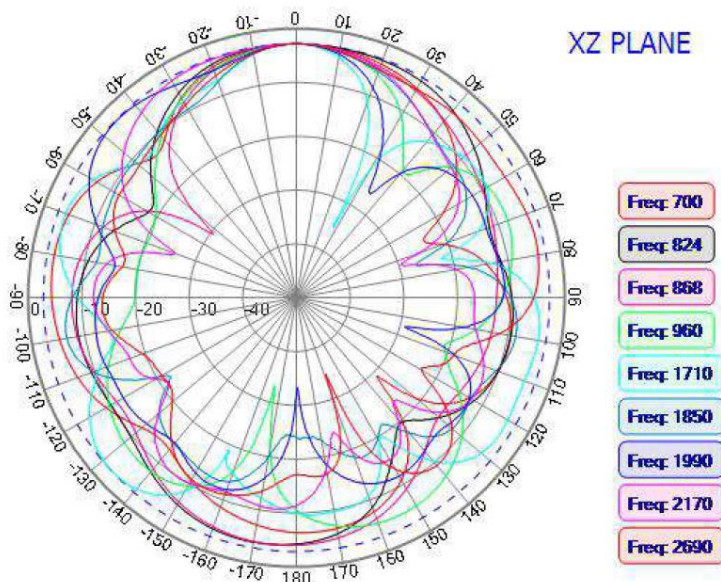


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LTE antenna XY plane



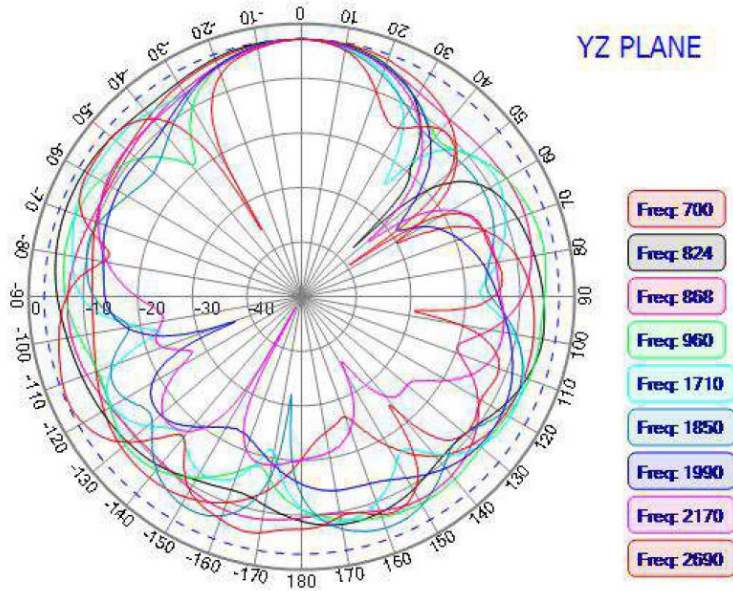
LTE antenna XZ plane



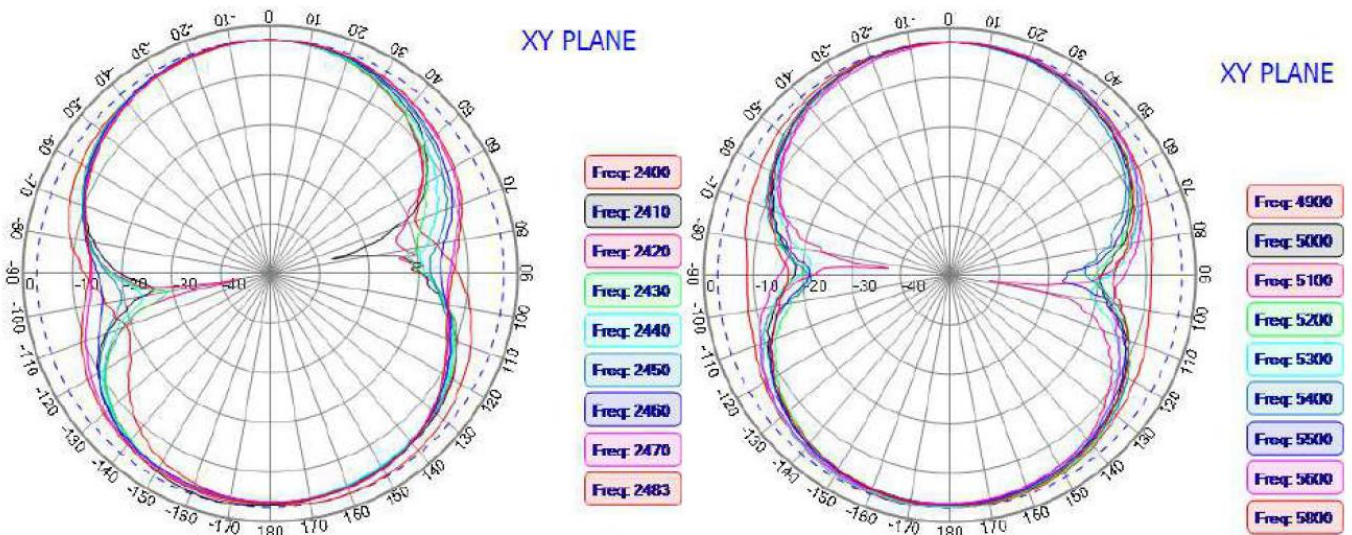


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LTE antenna YZ plane

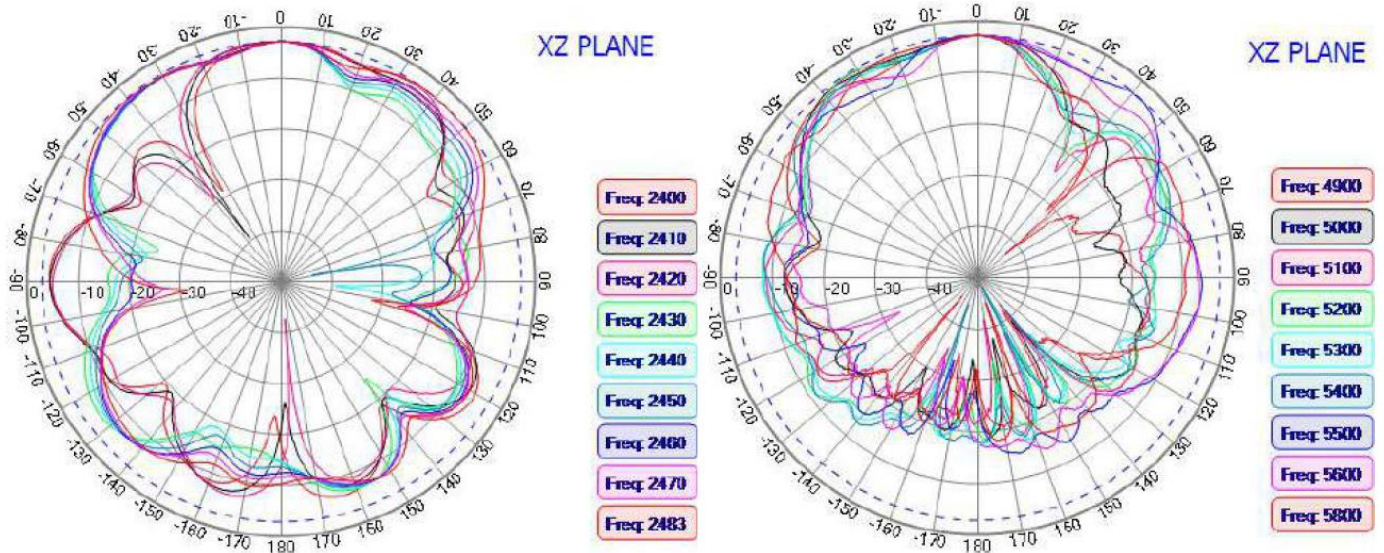


Wi-Fi antenna XY plane

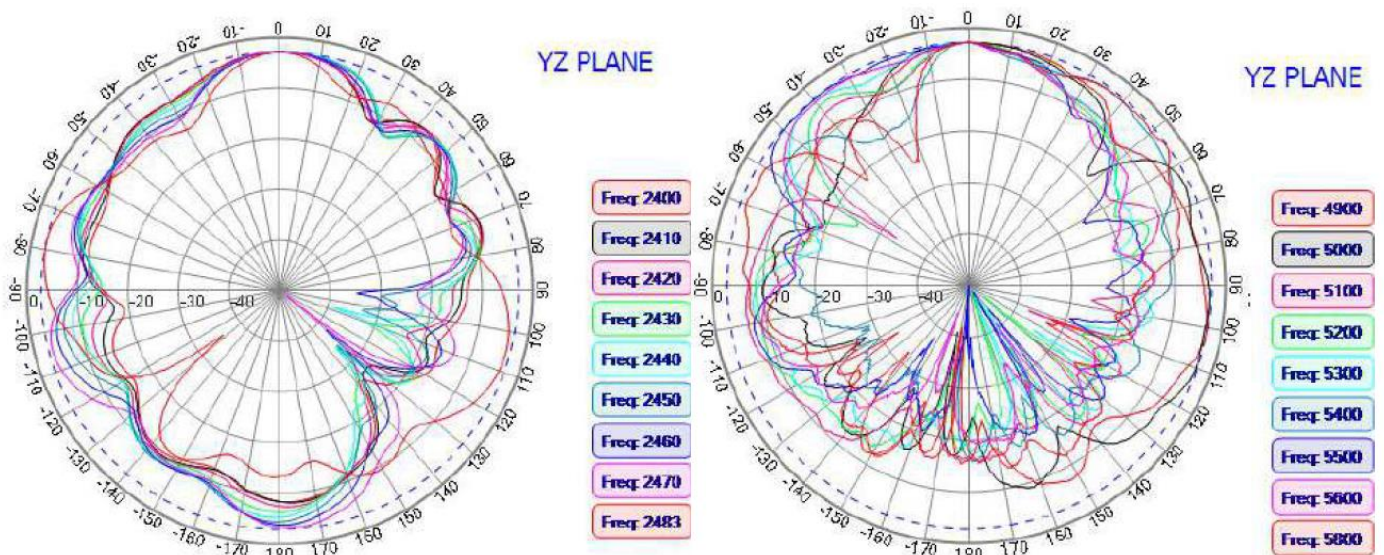


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Wi-Fi antenna XZ plane



Wi-Fi antenna YZ plane

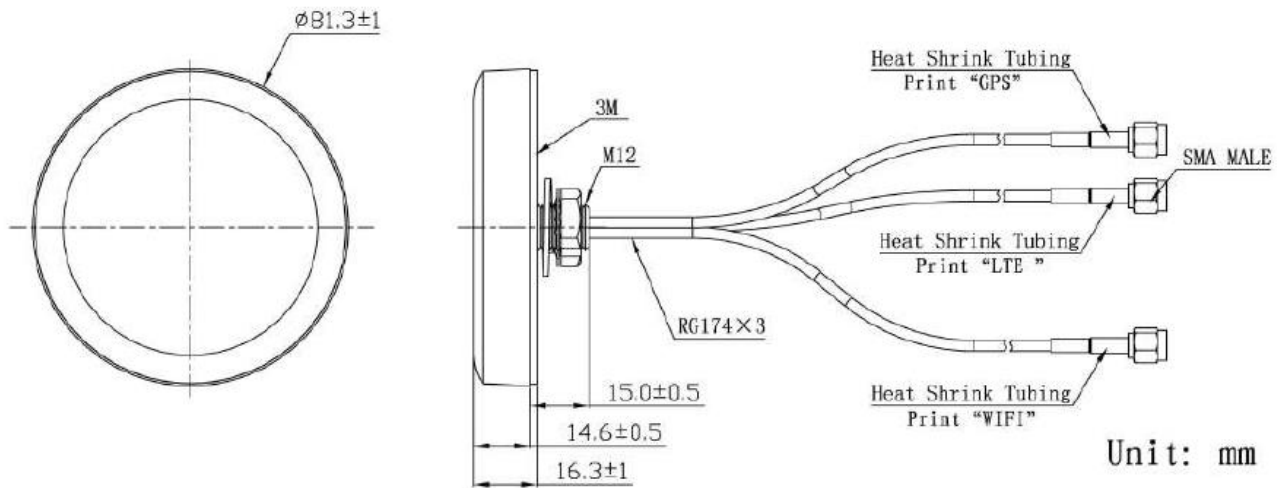




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**Dimensions**

\*unit: mm



**Different type of SMA connectors**



The ERF4107 antenna uses 3x SMA Male connector.

**Ordering information**

Ordering can be done via [www.summit-electronics.com](http://www.summit-electronics.com) or via [info@summit-electronics.com](mailto:info@summit-electronics.com). Please contact us for more information. Customisation of the product is available on request.

**Technical support**

For all product questions please contact us via [info@summit-electronics.com](mailto:info@summit-electronics.com)