

External Mount 4G/5G MiMo Antenna + GNSS

WMMGG-7-38



- Provides 2x2 MiMo antenna system for 4G/5G
- Two wideband elements with medium gain
- Durable housing for external or internal use
- Suitable for mast, wall and desk mounting
- Integral GPS/GNSS antenna

The WMMGG antenna provides an innovative and future proof solution for 3G/4G and 3.4-3.8GHz 5G networks. Incorporating two separately fed, ultra wideband elements in a single housing, it provides a client side 2x2 MiMo antenna system for the networks of today and tomorrow. With between 2-5dBi gain in the range 698-3800MHz, the WMMGG gives great performance, whilst maintaining a wide beam pattern which is ideal for metro and urban areas. A GNSS antenna with 26dB gain LNA is integrated and is compatible with GPS/GLONASS/Galileo and BeiDou systems.

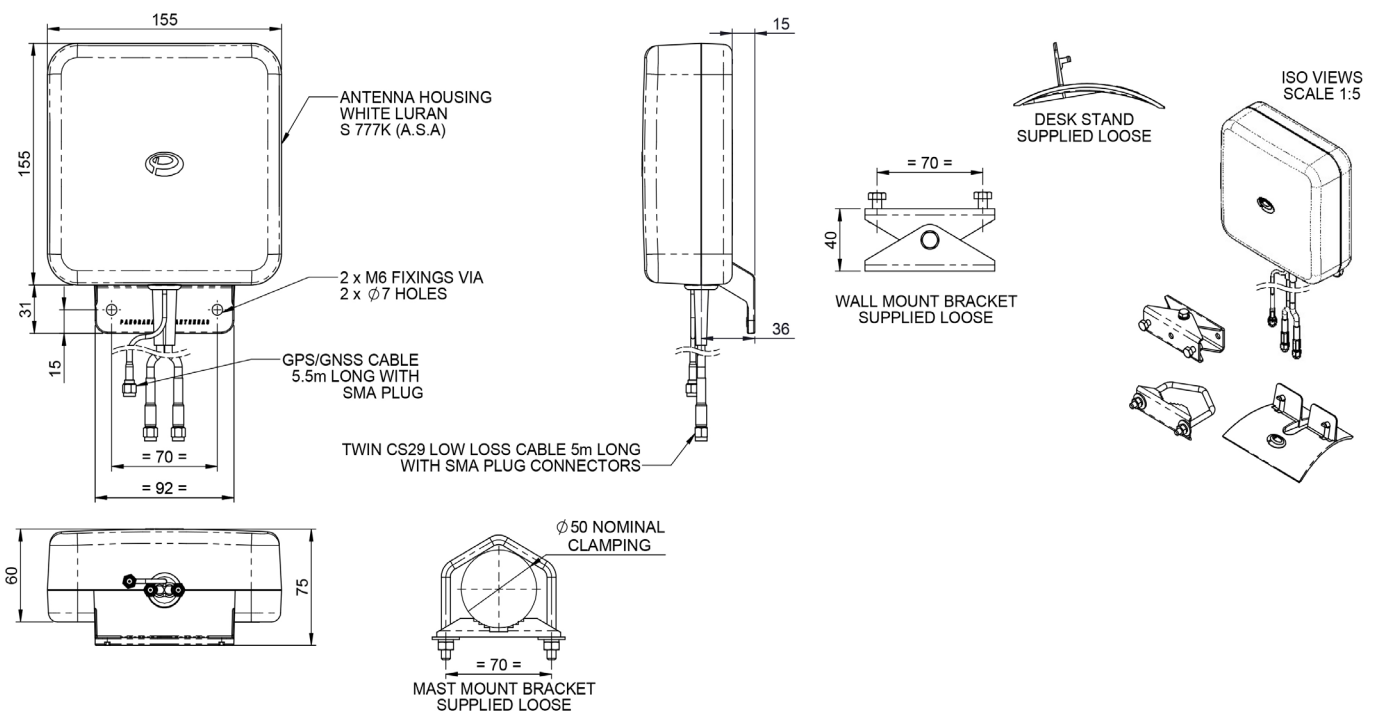
The rugged, weatherproof housing is designed for wall or mast mounting and hardware is provided. A desk stand is also included to enable the antenna to be positioned on a window sill if preferred.

The antenna is supplied with integral "twinned" CS29 coaxial cable. WMMGG-7-38-5SP version has 5m length, fitted with sma plug connectors for a simple 'plug & play' installation. WMMGG-7-38-03NJ version has 30cm length, fitted with N socket connectors, which enables use of lower loss cable types for longer runs.

The WMMGG is a cost effective value added product for network operators and service providers ensuring a stable network connection with improved data rates for subscribers, improving satisfaction and retention.

Technical Drawing

WMMGG-7-38-5SP Shown



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Product Data

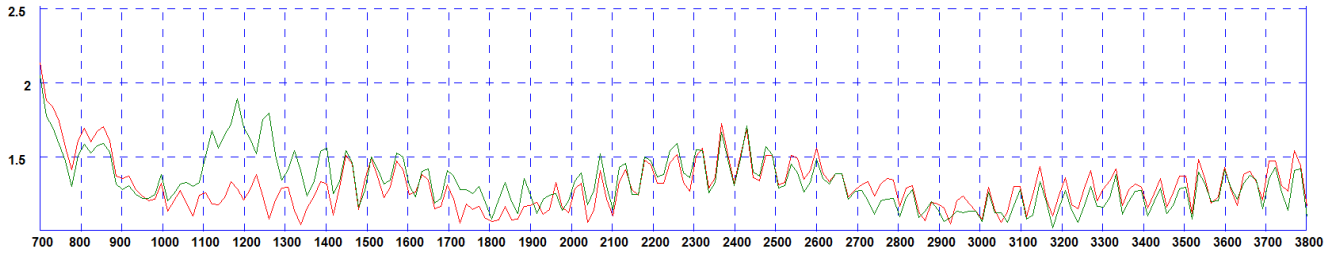
Part No.	WMMGG-7-38-5SP		WMMGG-7-38-03NJ	
Frequency Range	Element 1	698-960 / 1710-2700 / 3400-3800 MHz		
	Element 2	698-960 / 1710-2700 / 3400-3800 MHz		
Operational bands	3G/4G/5G			
VSWR (excluding cable)	< 2:1			
Peak Gain (excluding cable loss)	698-960 MHz	2dBi		
	1710-2700 MHz	5dBi		
	3400-3800MHz	4dBi		
Correlation Co-efficient (all bands)	< 0.2			
Typical Element Isolation	> 20dB			
Max Input Power	20 W			
Impedance	50Ω			
Mechanical Data				
Dimensions	Height	155mm (6.1")		
	Width	155mm (6.1")		
Operating Temp.	-30° / +80°C (-22° / 176°F)			
Material	ASA			
Colour	White			
Weight (including cable)	950g			430g
Ingress Protection	IP65			
Mounting Data				
Fixing	Wall mount / Mast mount / Desk mount			
Mounting Bracket Material	Stainless steel / Aluminium			
Pole Diameter	20-50mm / (0.78 - 1.96")			
GPS/GNSS Data				
Frequency Range (MHz)	1562-1612			
VSWR	<2:1 ± 4MHz			
Gain: LNA	26dB			
Polarisation	Right Hand Circular			
Operating Voltage	3-5V DC (fed via coax)			
Current	<20mA			
Cable Data		WMMGG-7-38-5SP		WMMGG-7-38-03NJ
Type	2 x CS29 (4G/5G)	1 x RG174 (GNSS)	2 x CS29 (4G/5G)	1 x RG174 (GNSS)
Diameter	5mm (0.2")	2.8mm (0.12")	5mm (0.2")	2.8mm (0.12")
Length	5m (16')		0.3m (1')	
Termination	3x SMA (M)		3x N JACK (F)	

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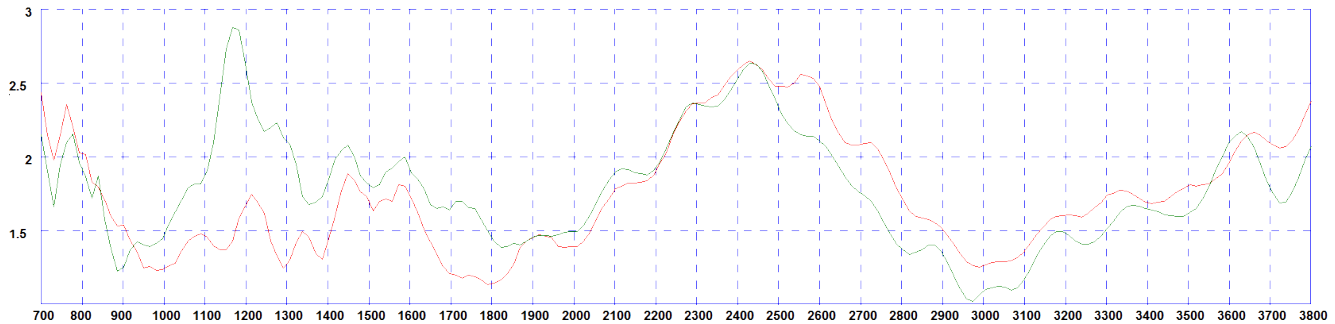
Electrical Data - Cell

Typical VSWR Elements 1 & 2 *



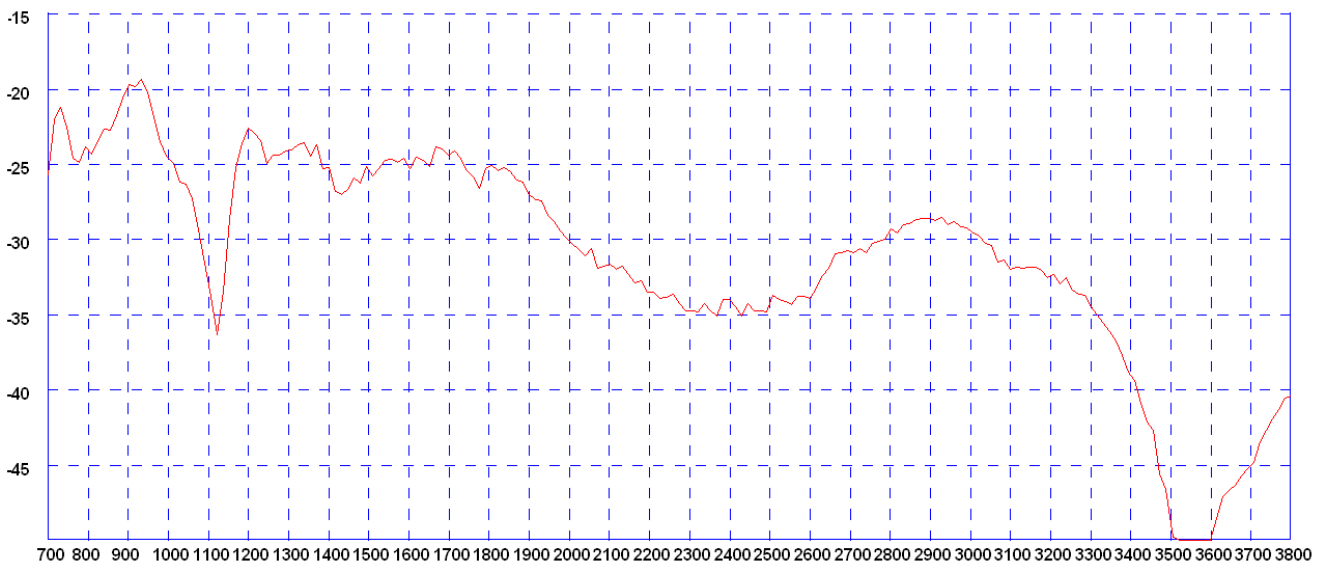
*VSWR Measured with 5m (16') of CS29 cable

Typical VSWR Elements 1 & 2 *



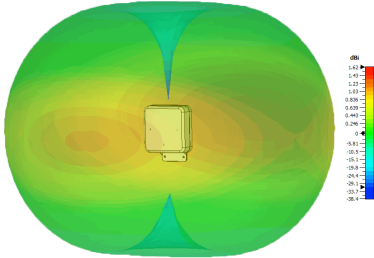
*VSWR measured without cable

Typical Isolation Elements 1 & 2 *

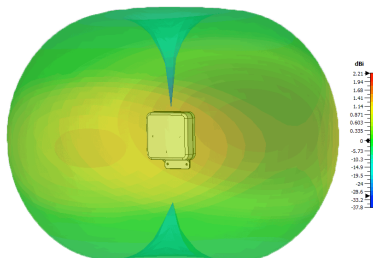


* Isolation measured with 5m (16') of CS29 cable

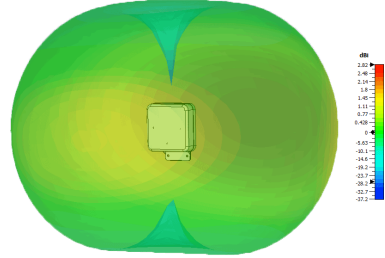
3D Gain Plot (750MHz)



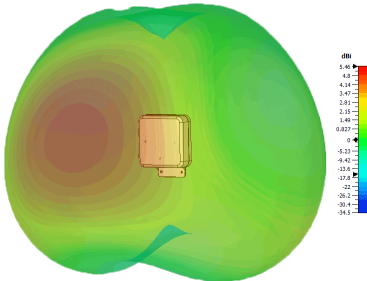
3D Gain Plot (850MHz)



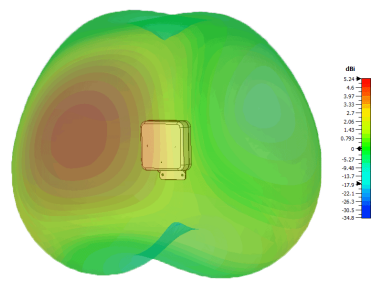
3D Gain Plot (950MHz)



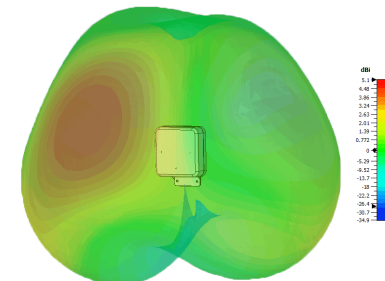
3D Gain Plot (1800MHz)



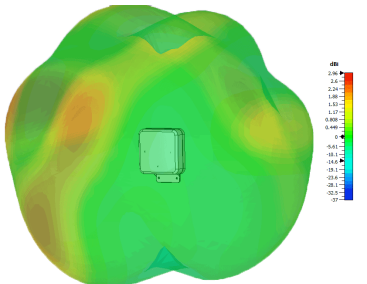
3D Gain Plot (1900MHz)



3D Gain Plot (2100MHz)



3D Gain Plot (2600MHz)



3D Gain Plot (3600MHz)

