MiMo Directional Antenna

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WMM8G-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

The WMM8G 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 6-9dBi gain in the range 698-3800MHz, the WMM8G gives great performance, whilst maintaining a wide beam pattern which is ideal for metro and urban areas.

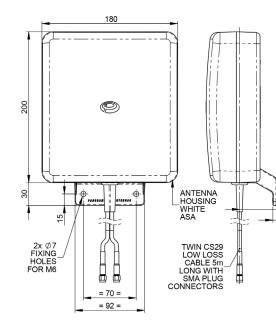
The rugged, weatherproof housing is designed for wall or mast mounting and hardware is provided. A desk stand is also included to enable the antenna to be positioned on a window sill if preferred.

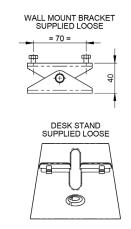
The antenna is supplied with integral "twinned" CS29 coaxial cable. WMM8G-7-38-5SP version has 5m length, fitted with sma plug connectors for a simple 'plug & play' installation. WMM8G-7-38-03NJ version has 30cm length, fitted with N socket connectors, which enables use of lower loss cable types for longer runs.

The WMM8G 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

WMM8G-7-38-5SP Shown

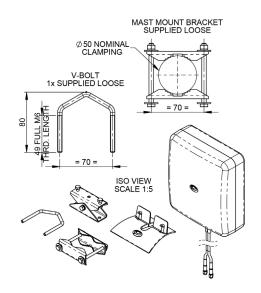






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WMM8G-7-38-[VAR] [15/04/2021] V2

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Product Data

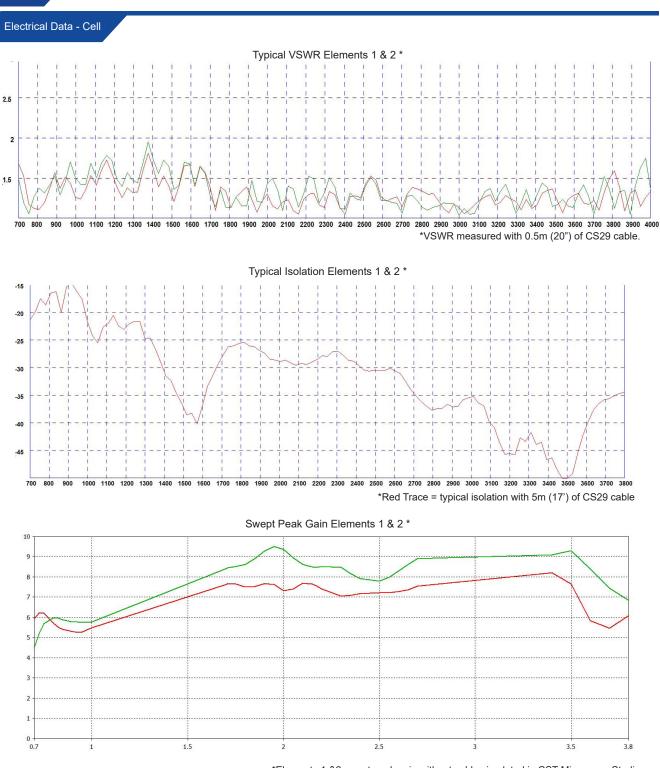
Part No.				
		WMM8G-7-38-5SP	WMM8G-7-38-03NJ	
Electrical Data				
Frequency Range (MHz)	Antenna 1	698-960/1710-2700/3400-3800		
	Antenna 2	698-960/1710-2700/3400-3800		
Operational bands		2G / 30	2G / 3G / 4G / 5G	
Radiation pattern		Directional		
Nominal Polarisation		+/- 45deg Vertical		
Peak Gain (excl cable loss)+	698-960 MHz	(6dBi	
	1710-2170 MHz	9dBi		
	2396-2700 MHz	9dBi		
	3400-3800MHz	9dBi		
Efficiency - excluding cable loss (all bands)		> 60%		
Correlation co-efficient (all bands)		< 0.1		
Max input power (W)		20 Watts		
Nominal Impedance		50Ω		
Mechanical Data				
Dimensions (mm)	Height	230 (9")		
	Width	180 (7.1")		
	Depth	94 (3.7")		
Operating temp (°C)		-45° / +80°C (-49° / 176°F)		
Material		U.V. stable, impact resistant ASA		
Colour		RAL9010 (Pure White)		
Weight (g)		955		
Ingress Protection		IP 65		
Mounting Data				
Fixing		Wall mount / mast mount / desk mount		
Mounting bracket material		Stainless steel / Aluminium		
Pole diameter (mm)		20-50 / (0.78 - 1.96")		
Cable Data		``````````````````````````````````````		
Туре		2 x CS29	2 x CS29	
Diameter (mm)		5 (0.2")	5 (0.2")	
Length (m)		5 (16')	0.3 (12")	
Termination		2 × SMA (m)	2 × N(f)	

+ Swept peak gain simulated in CST Microwave studio for each element excluding cable loss

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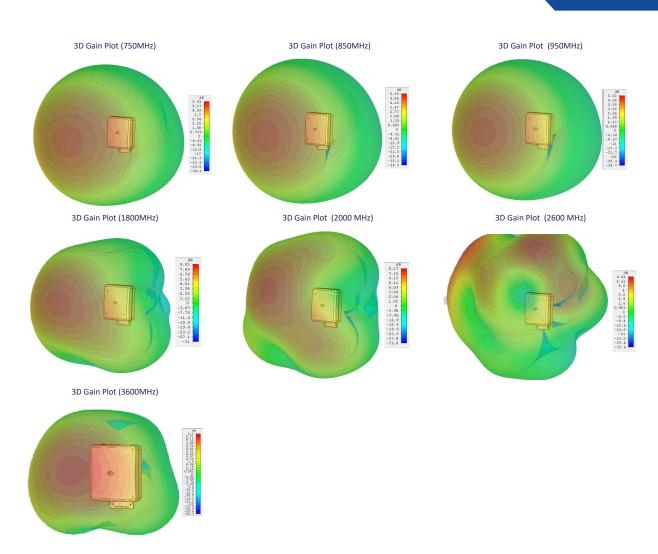
*Elements 1 &2 swept peak gain without cable simulated in CST Microwave Studio

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3D Patterns - Cell



*WMM8G-7-38 3D Patterns show realised gain both elements fed modelled in CST Microwave Studio without additional cable.

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