

MiMo Directional Antenna

WMM8G-7-38-[VAR]

PANORAMA ANTENNAS



WMM8G-7-38

Supports MiMo & diversity across 3G, 4G & 5G

Two wideband elements with gain

Durable wall mount housing

Suitable for mast, wall and desk mounting

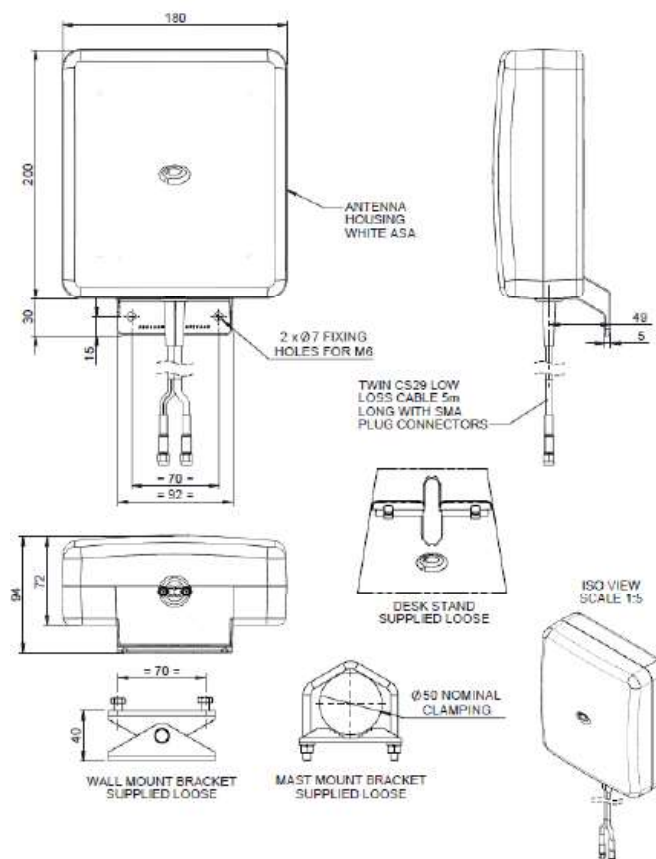
The WMM8G-7-38 antenna is a high directional gain 2x2 MiMo signal boosting antenna for 2G, 3G, 4G and many 5G networks. Incorporating two separately fed wideband elements in a single housing the WMM8G-7-38 is equipped to provide client side MiMo and diversity support for 2G, 3G, 4G and many 5G networks. With 6dBi of peak gain at 698-960MHz and 9dBi peak gain at 1710-3800MHz the WMM8G-7-38 provides extra gain for next generation networks.

The rugged, weather resistant housing is designed for wall mounting and wall and mast mount brackets are provided. Supplied with fitted low loss double shielded twin cable the WMM8G-7-38 minimises exposed connector joints and simplifies cable management for easy installation.

The WMM8G-7-38 is an cost effective value added product for network operators and service providers ensuring a stable link with improved data rates for subscribers thereby improving satisfaction and retention.

Technical Drawing

WMM8G-7-38-5SP Shown



MiMo Directional Antenna

WMM8G-7-38-[VAR]

PANORAMA  ANTENNAS

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 / 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)		-30° / +80°C (-40° / 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		
Type	2 x CS29 Coax (double shielded RG58)	2 x CS29 Coax (double shielded RG58)
Diameter (mm)	5 (0.2")	5 (0.2")
Length (m)	5 (16')	0.3 (12")
Termination	2 x SMA (m)	2 x N(f)

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

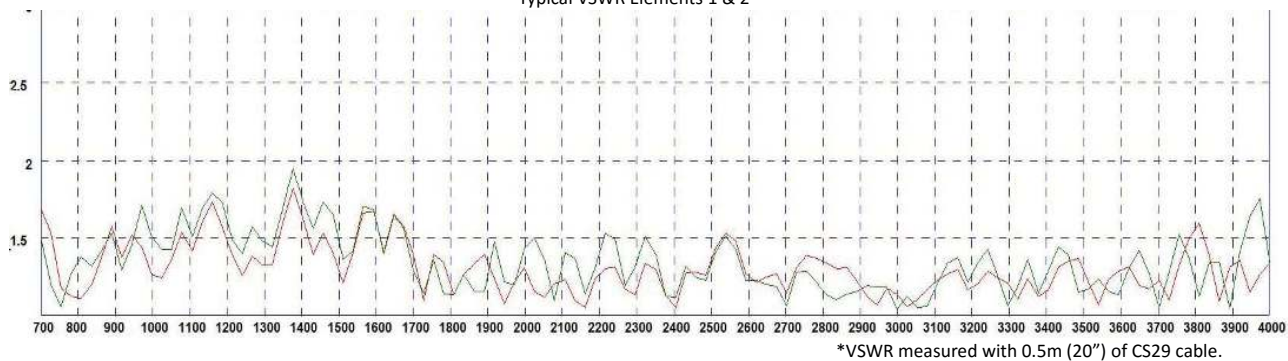
MiMo Directional Antenna

WMM8G-7-38-[VAR]

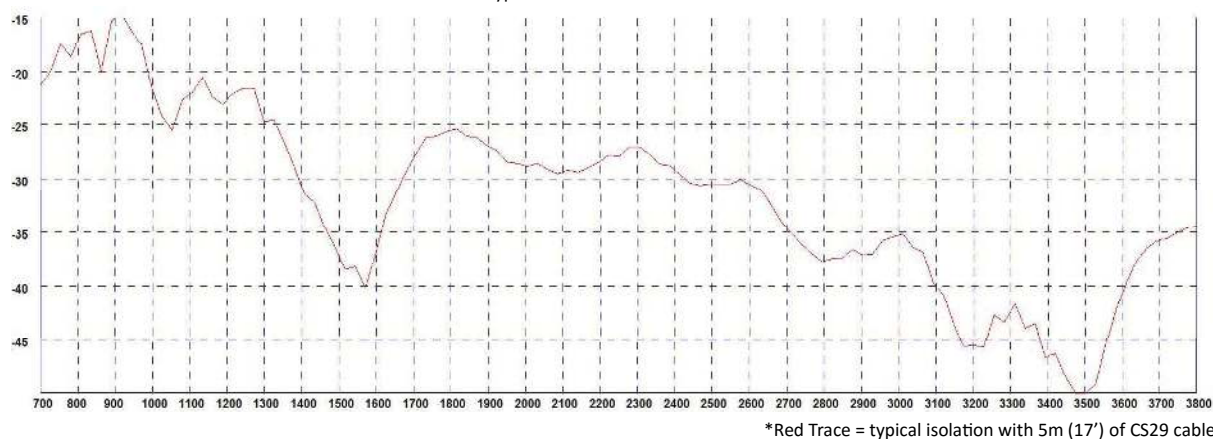
PANORAMA ANTENNAS

VSWR

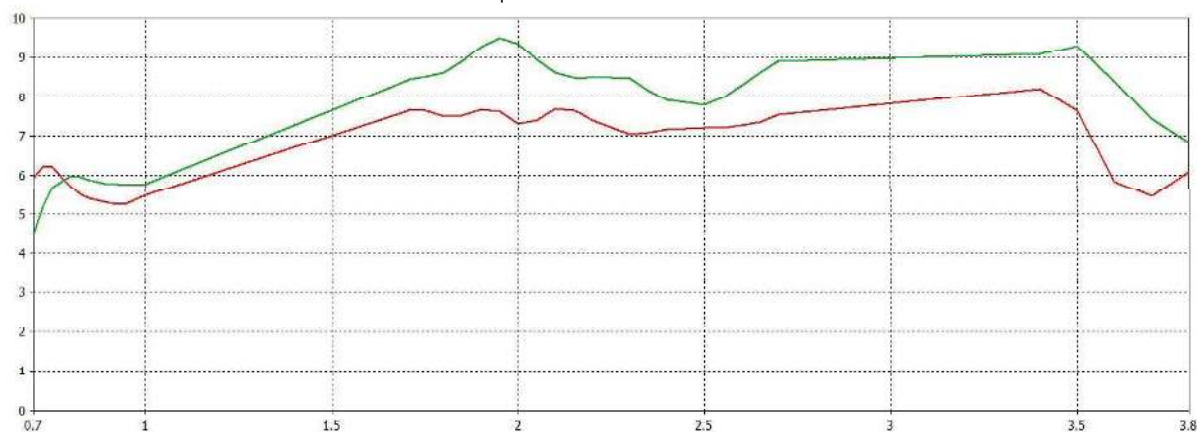
Typical VSWR Elements 1 & 2 *



Typical Isolation Elements 1 & 2 *



Swept Peak Gain Elements 1 & 2 *



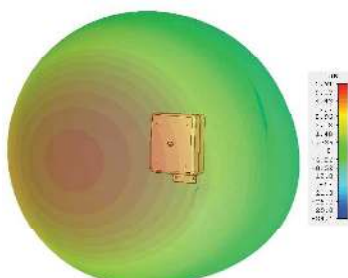
MiMo Directional Antenna

WMM8G-7-38-[VAR]

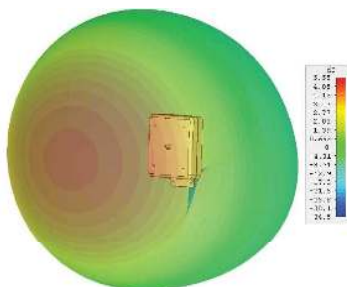
PANORAMA ANTENNAS

Gain Plots

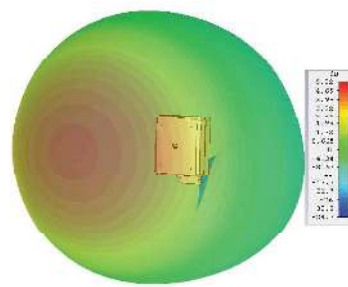
3D Gain Plot (750MHz)



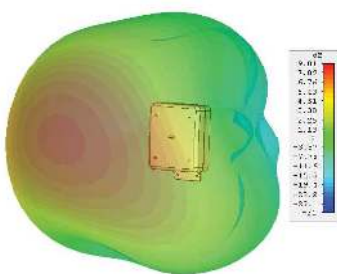
3D Gain Plot (850MHz)



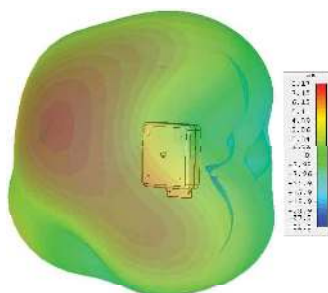
3D Gain Plot (950MHz)



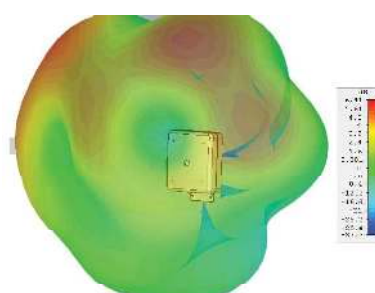
3D Gain Plot (1800MHz)



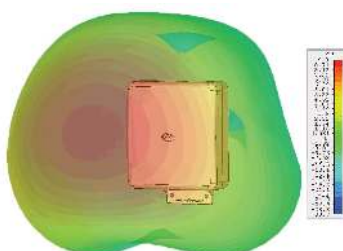
3D Gain Plot (2000 MHz)



3D Gain Plot (2600 MHz)



3D Gain Plot (3600MHz)



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