

LTE / Mobile Broadband

Portable MiMo Antenna

19/04/2016 v2



DMM-7-27 Range

- Supports MiMo & diversity across 2G /3G / 4G
- Two omni-directional ultra wideband elements
- Fold out feet for desk mounting
- Optional suction mount

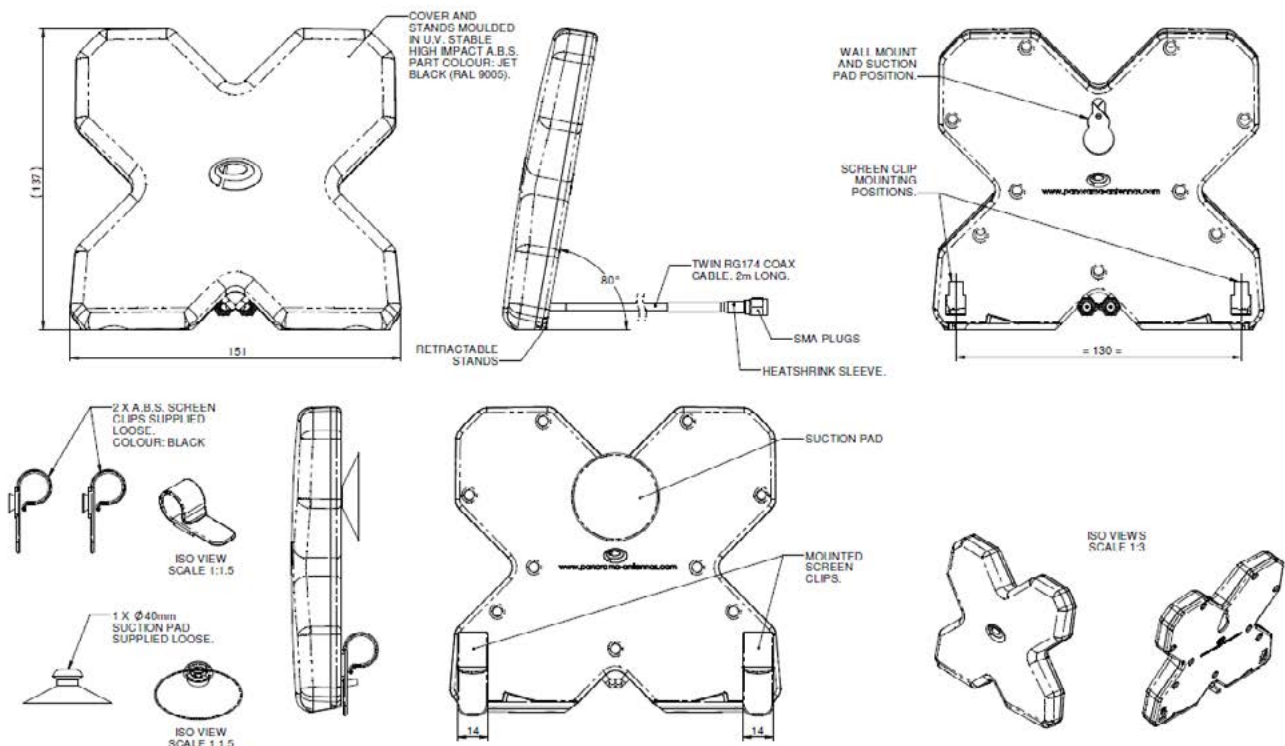
The DMM antenna provides an innovative and future proof solution for 2G / 3G and 4G networks. Incorporating two separately fed ultra wideband elements in a single housing the DMM is equipped to provide portable MiMo and diversity support for the networks of today and tomorrow.

The DMM is highly portable and features desk mount feet which fold out for use, and flat for transport. A handy suction window mount (DMM-7-27-2SP Variant) enables users to optimise their signal in multiple locations, with instant installation and easy removal.

The product is supplied with up to 2 metres of cable and a variety of adaptors are available.

The DMM is a 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.

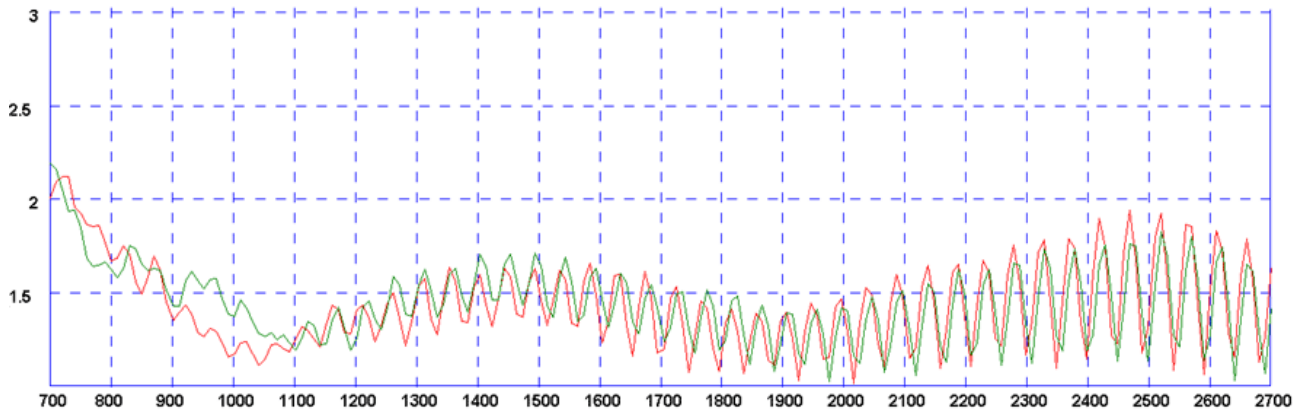
Technical Drawing - (DMM-7-27-2SP Variant)



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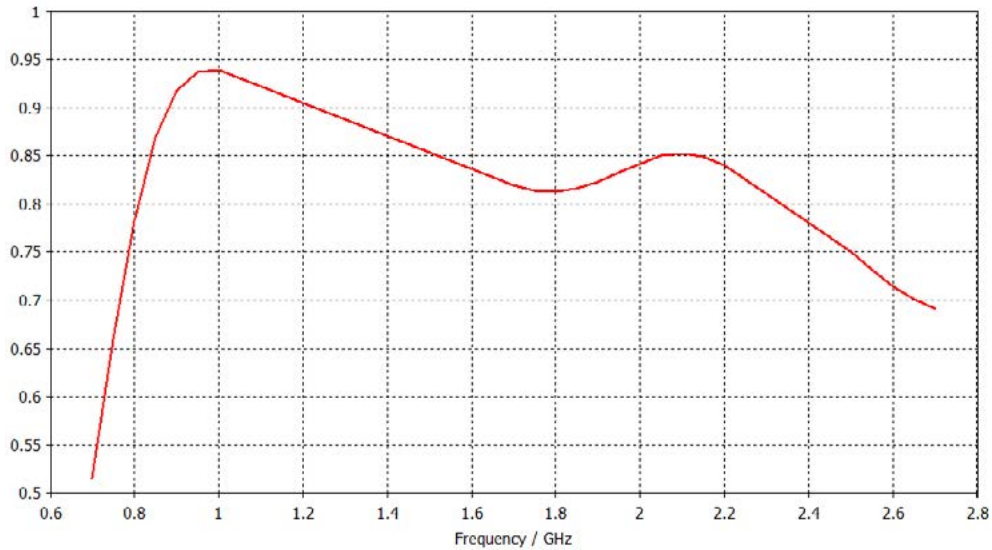
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Typical VSWR Elements 1 & 2

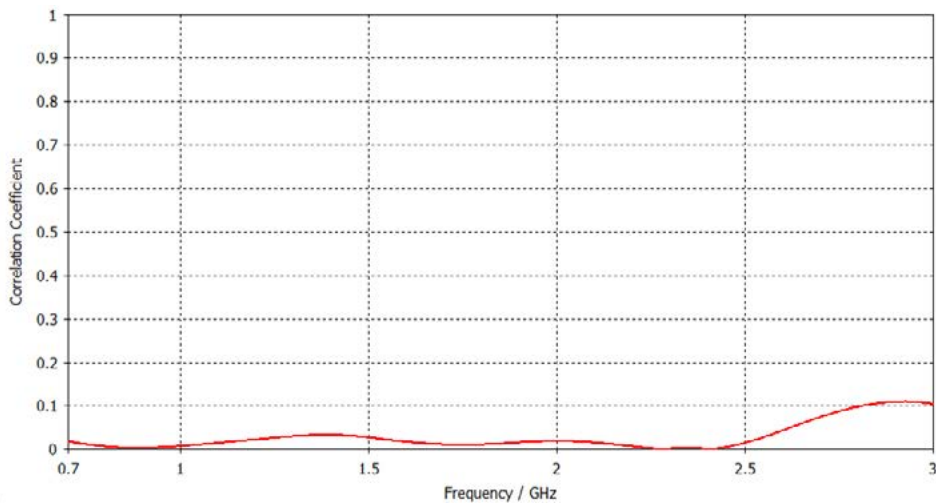


*VSWR measured with 2m (6') of RG174 cable

Typical Element Efficiency



Correlation Coefficient



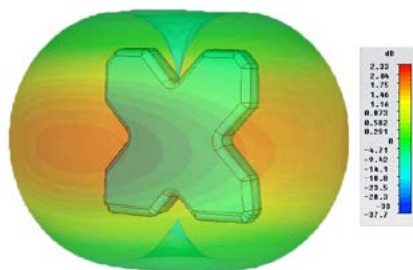
*Element efficiency and correlation co-efficient simulated in CST Microwave Studio without cable loss.

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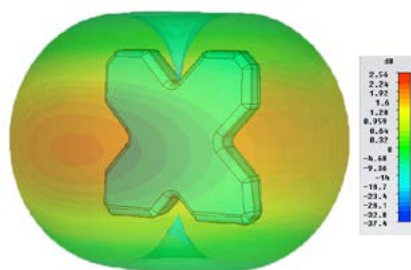
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3D gain plots

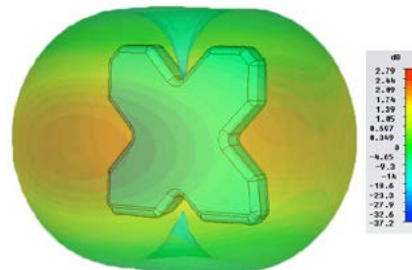
3D Typical Gain Plot (750MHz)



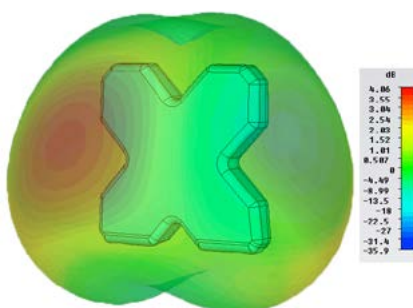
3D Typical Gain Plot (850MHz)



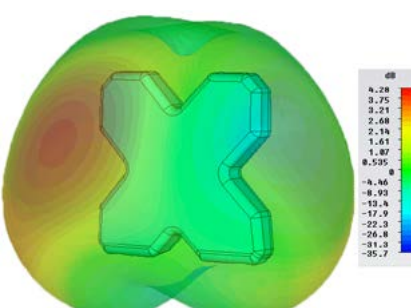
3D Typical Gain Plot (950MHz)



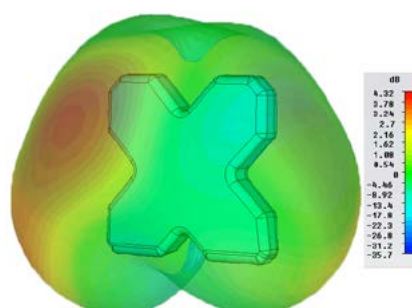
3D Typical Gain Plot (1800MHz)



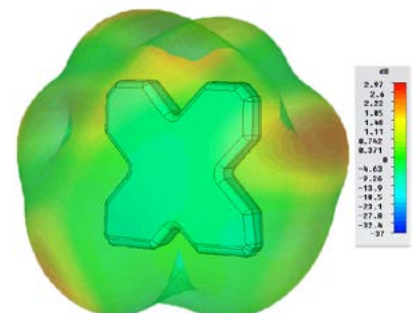
3D Typical Gain Plot (1900MHz)



3D Typical Gain Plot (2100MHz)



3D Typical Gain Plot (2600MHz)



*Element efficiency and correlation co-efficient simulated in CST Microwave Studio without cable loss.

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Part No.		DMM-7-27-2SP	DMM-7-27-2TS9	DMM-7-27-2CRC9
Electrical Data				
Frequency Range (MHz)	Antenna 1	698-960 / 1710-2700	698-960 / 1710-2700	698-960 / 1710-2700
	Antenna 2	698-960 / 1710-2700	698-960 / 1710-2700	698-960 / 1710-2700
Operational Bands		2G / 3G / 4G	2G / 3G / 4G	2G / 3G / 4G
Radiation Pattern		Omni-directional	Omni-directional	Omni-directional
Typical VSWR		< 2.5:1	< 2.5:1	< 2.5:1
Peak Gain - excluding cable loss (all bands)	698-960MHz	2.5dBi	2.5dBi	2.5dBi
	1710-2170MHz	4dBi	4dBi	4dBi
	2.2-2.7GHz	3dBi	3dBi	3dBi
Efficiency - excluding cable loss (all bands)	698-960MHz	> 50%	> 50%	> 50%
	1710-2170MHz	> 80%	> 80%	> 80%
	2.2-2.7GHz	> 65%	> 65%	> 65%
Correlation Co-efficient (all bands)		< 0.1	< 0.1	< 0.1
Element Isolation		> 20dB	> 20dB	> 20dB
Max Input Power (W)		20 Watts	20 Watts	20 Watts
Impedance		50Ω	50Ω	50Ω
Mechanical Data				
Dimensions (mm)	Height	137 (5.4")	137 (5.4")	137 (5.4")
	Width	151 (5.94")	151 (5.94")	151 (5.94")
Operating Temp (°C)		-40° / +80°C (-40° /180°F)	-40° / +80°C (-40° /180°F)	-40° / +80°C (-40° /180°F)
Material		U.V. Stabilised ABS	U.V. Stabilised ABS	U.V. Stabilised ABS
Colour		RAL9005 (Jet Black)	RAL9005 (Jet Black)	RAL9005 (Jet Black)
Weight		250g	250g	250g
Mounting Data				
Fixing		Desk mount / screen clip window mount	Desk mount / screen clip window mount	Desk mount / screen clip window mount
Cable Data				
Type		2 x RG174	2 x RG174	2 x RG174
Diameter (mm)		2.8 (0.1")	2.8 (0.1")	2.8 (0.1")
Length (m)		2 (6.5')	2 (6.5')	2 (6.5')
Termination		2 x SMA (m)	2 x SMK TS9 (m)	2 x CRC9 (m)
Adaptor Pigtaills		Supplied separately	Not available	Not available

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Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

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