

Ultra Compact MiMo 3.6/5GHz Antenna

LPPM[X]-36-55-[VAR]

PANORAMA ANTENNAS



LPPM[X]-36-55-[VAR]

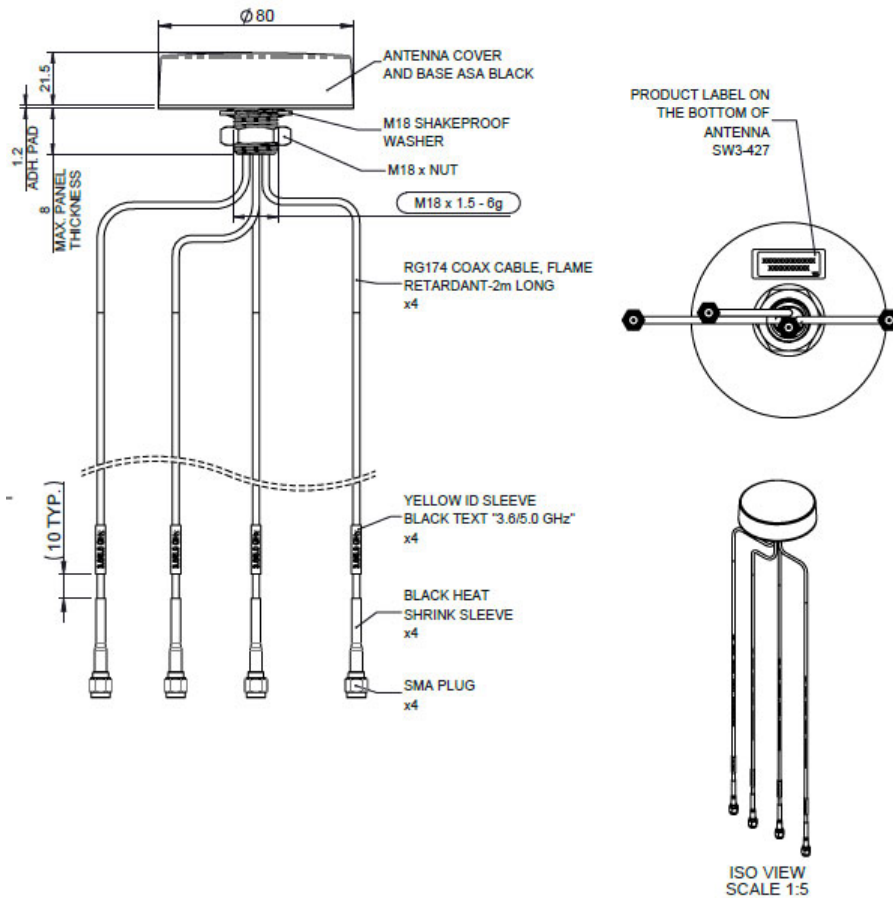
- Ultra Compact
- Dual Band Private LTE / CBRS 3.6/5.0
- Up to 4 x 4 MiMo

The LPPM[X]-36-55 range has been designed to provide MiMo dual band 3.6/5.0GHz coverage for private LTE / CBRS in an ultra low profile package. The compact, robust low-profile housing contains up to four antenna elements with effective isolation and low correlation covering 3.4-3.8/4.9-6GHz.

The antenna is designed to be panel mounted and can be fitted on a conductive or non- conductive panel. Supplied with integrated RG174 cable the antenna is suitable for many environments.

Technical Drawing

LPPM-36-55-2SP



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Product Data

Part No.

LPPM4-36-55-2SP

Electrical Data

	4x 3.6/5.0GHz	
Peak Gain	3.4-3.8GHz	2dBi
Isotropic †	4.9-6.0GHz	4dBi
Typical VSWR*	< 2:1	
Typical Isolation*	>20dB	
Pattern	Omni-directional	
Nominal Impedance	50Ω	
Max input power (W)	10	

Mechanical Data

Dimensions (mm)	Diameter	80 (3.15")
	Height	21.5 (0.85")
Operating Temp (°C)	-30° / +70°C (-30° / 158°F)	
Material	ASA	
Colour	Black	
IP Rating	IP66 / IP69K**	
Typical Weight	170g	

Mounting Data

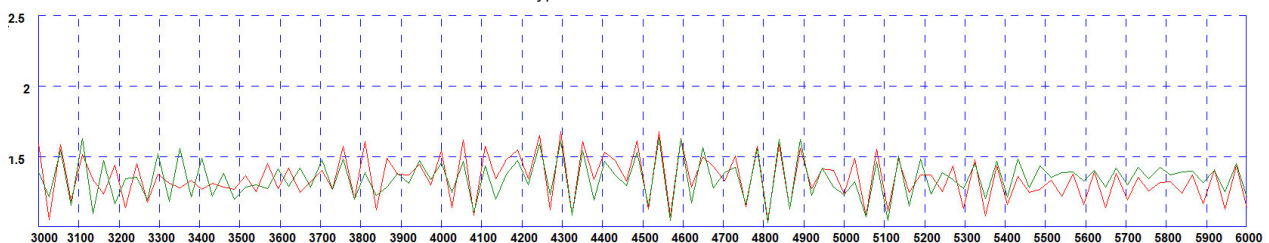
Fixing	Panel Mount - 18mm (3/4")
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Cable Data

WiFi Cables	Cable Type	FR RG174
	Diameter	3mm (0.1")
	Length	2m (6')
	Termination	SMA (m)

Electrical Data

Typical VSWR - Elements 1-4*



* VSWR measured with 2m (6') of RG174 cable in free space - RED TRACE and on a 600x600mm Ground plane - GREEN TRACE

† Peak gain simulated with all elements fed in free space excluding cable loss

* Typical Isolation and VSWR stated as measured in free space with 2m (6') of cable

**When installed in accordance with SW3-996

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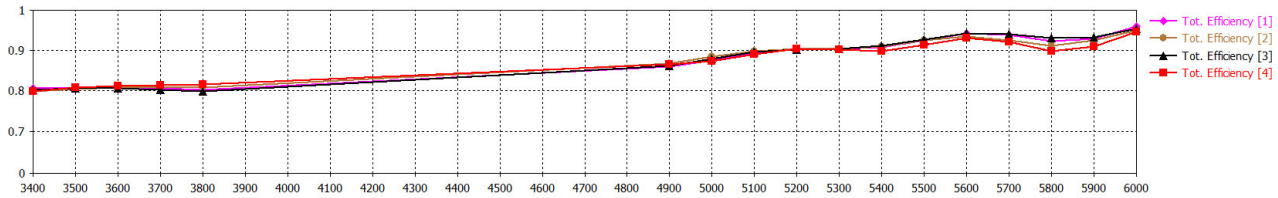
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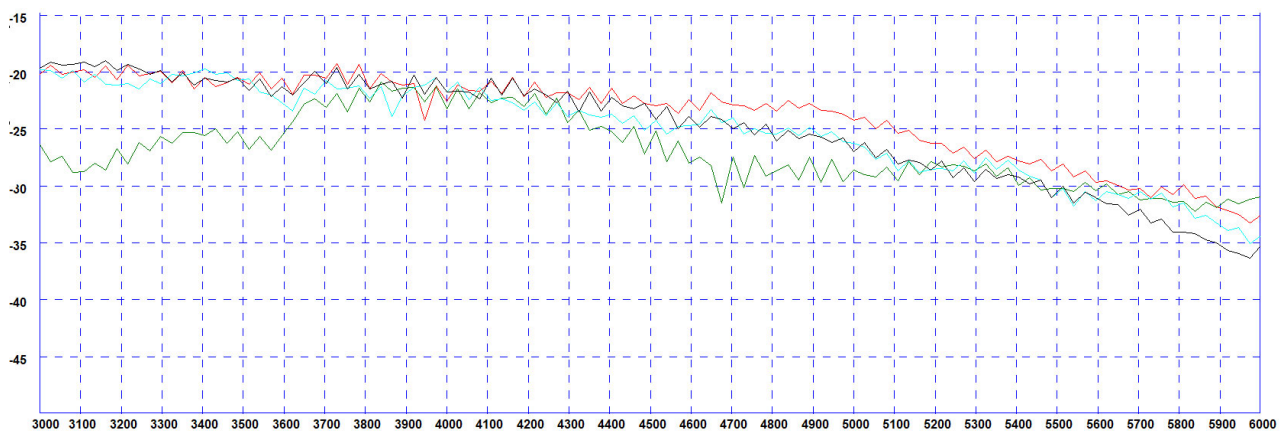
Electrical Data

Typical VSWR Elements 1-4*



*Efficiency simulated in CST Microwave Studio in free space without cable

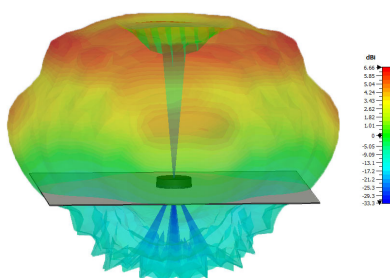
Typical Isolation*



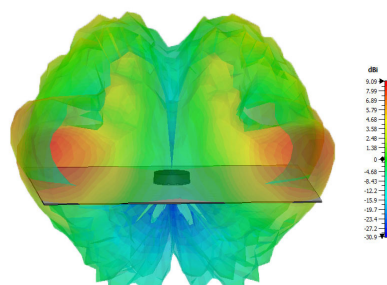
*Typical Isolation measured with 2m RG174 cable in free space Red Trace = elements 1-2 Green Trace = Elements 1-3 Blue Trace = Elements 1-4 Black Trace = Elements 2-3

Pattern Data

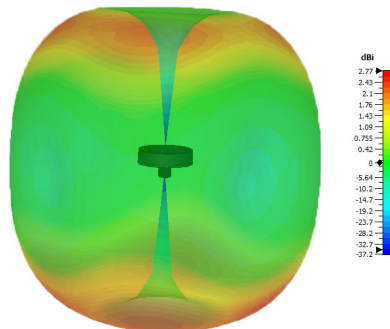
Typical 3D Pattern Ground Plane (3600MHz)



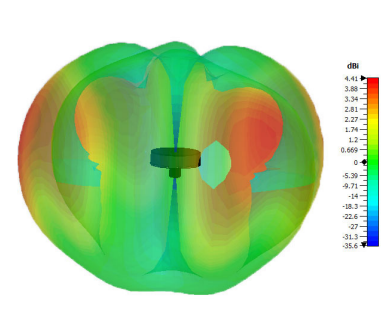
Typical 3D Pattern Ground Plane (5400MHz)



Typical 3D Pattern Free Space (3600MHz)



Typical 3D Pattern Free Space (5400MHz)



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