

# 2x2 MiMo 4G/5G Dome Antenna Kit

## LG-IN2456

PANORAMA ANTENNAS



### Low Profile 2x2 4G/5G MiMo

### GPS/GNSS Active Antenna 26dB LNA

The LG-IN2456 range has been designed to provide 2x2 4G/5G MiMo performance from 617-960/1710-6000MHz in a robust low profile package. The flexible platform allows the main elements to be combined with a number of other functions including GPS/GNSS.

The antenna is designed to be panel mounted and can be fitted on a conductive or non-conductive panel. Supplied with integrated flame retardant RG174 cables (Compliant to UNECE 118.01 and EN45545-2) and a halogen free flame retardant radome the antenna is suitable for many environments and applications.

The antenna is available with a black or white radome which meets IK10 for vandal resistance and IP69K for ingress protection.

**IK10**

Certified IK10  
Impact Resistant

**IP69K  
RATED**

Certified IP69K  
Ingress Protected



Flame Retardant  
Halogen Free  
Radome -UL94-V0

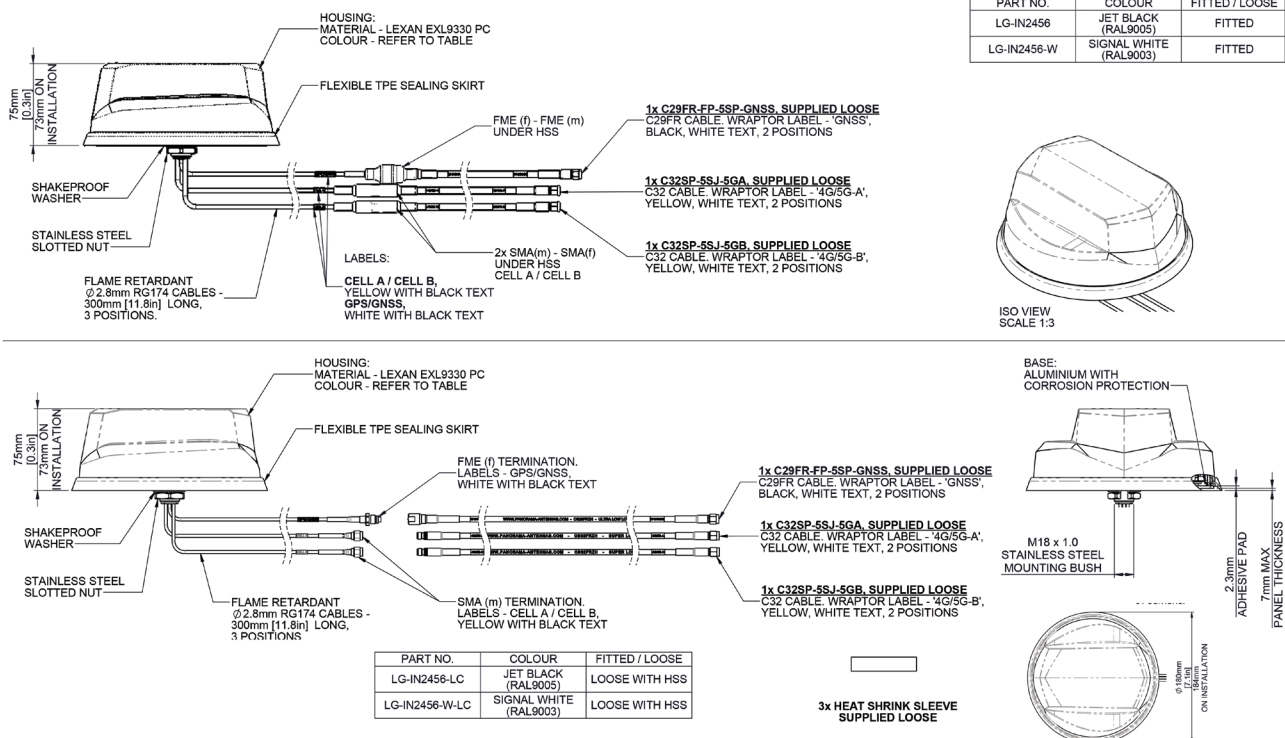


UV, Ozone, High &  
Low Temperature  
Protected



Environmentally  
Compliant - Meets  
RoHS, REACH - PVC  
Free

### Technical Drawing



# 2x2 MiMo 4G/5G Dome Antenna Kit LG-IN2456

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Part No.					
		LG-IN2456-W	LG-IN2456-W-LC	LG-IN2456	LG-IN2456-LC
Electrical Data					
Frequency Range (MHz)		4G/5G Elements		2x 617-960 / 1710-6000	
Peak Gain: Isotropic : All Elements Fed	4G/5G Elements	617-960MHz		5	
		1710-3800MHz		9	
		4900-6000MHz		10	
Typical Efficiency		4G/5G Elements		>70%	
Isolation		4G/5G Elements		>12dB	
Correlation Co-efficient		4G/5G Elements		< 0.1	
Nominal Impedance		50Ω			
GPS/GNSS Data					
Frequency Range (MHz)		1562-1612			
VSWR		<2.0:1 ± 4MHz			-
Gain: LNA		26dB			
Out of band rejection		>40dB (@ > +/- 100MHz f)			
Typical Noise Figure		-2.7dB			
Notch Filter rejection @787MHz		24dB			
Operating Voltage		3 - 5V DC			
Typcal Current (mA)		15			
Mechanical Data					
Dimensions (mm)	Height	75 (3")			
	Diameter	180 (7.1")			
Operating Temp		-40°/ +80°C (-40° / +176°F )			
Colour		White	Black	White	Black
Ingress Protection		IP69K			
Mounting Data					
Mounting type		Panel mount			
Max panel thickness (mm)		7 (0.27")			
Mounting hole (mm)		19 (3/4")			
Extension Cable Data		GPS Cables		All Other Cables	
All Cables	Type	FR CS29 (UN118.03 / EN45545-2 HL2 Compliant)		CS32 (UN118.03 / EN45545-2 Compliant)	
		Fitted	Loose	Fitted	Loose
	Diameter (mm)	5 (0.2")			
	Length (m)	5 (16')			
Terminations					
4G/5G		2x SMA (m)			
GPS/GNSS		1x SMA(m)			

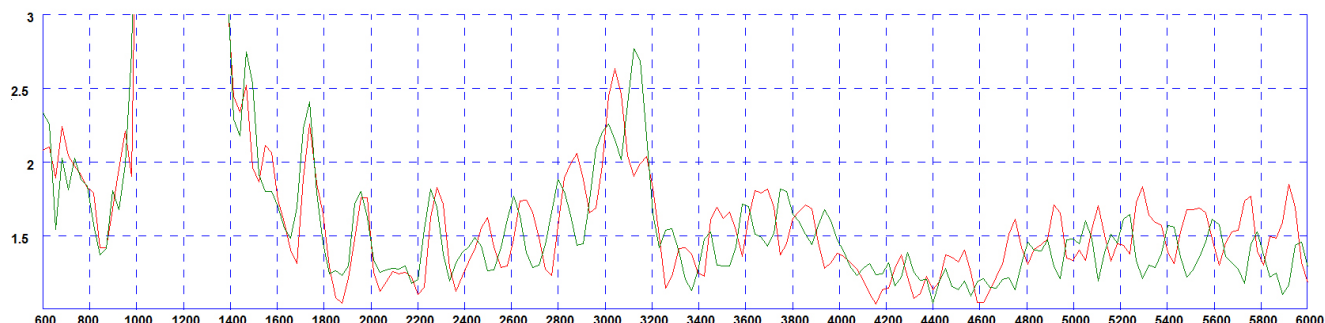
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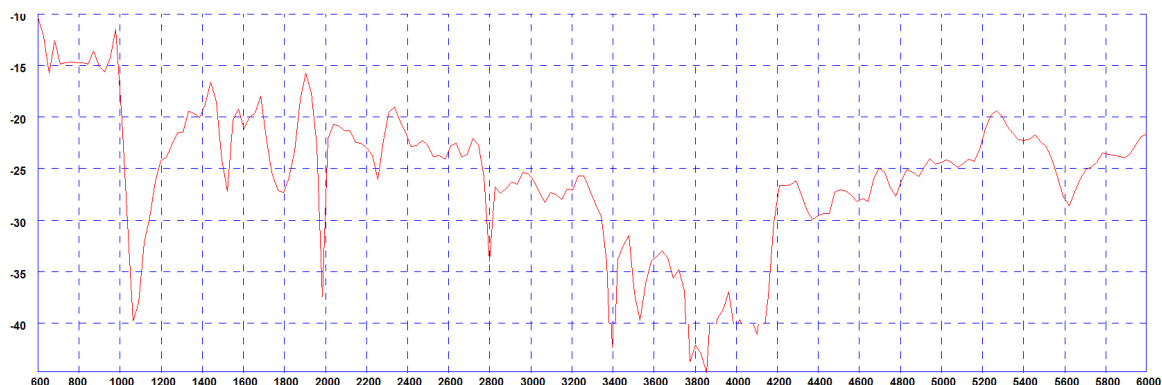
## Electrical Data

Typical VSWR - 4G/5G Elements\*



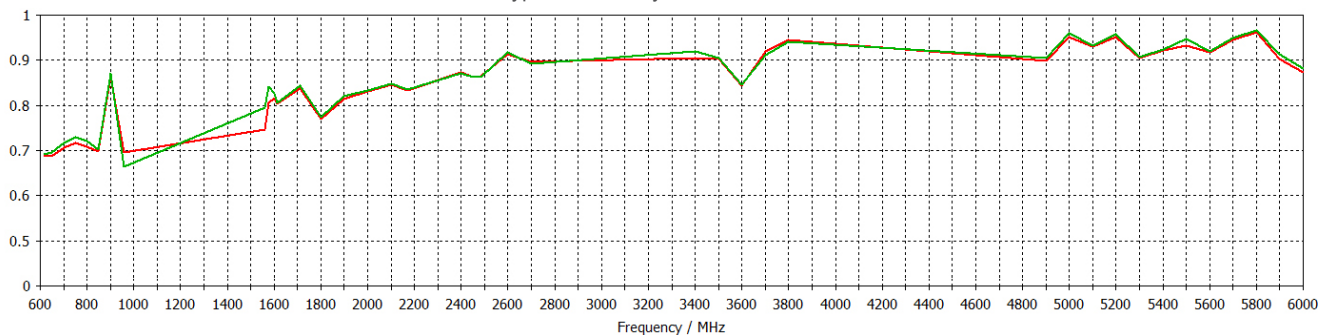
\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical Isolation - 4G/5G Elements\*



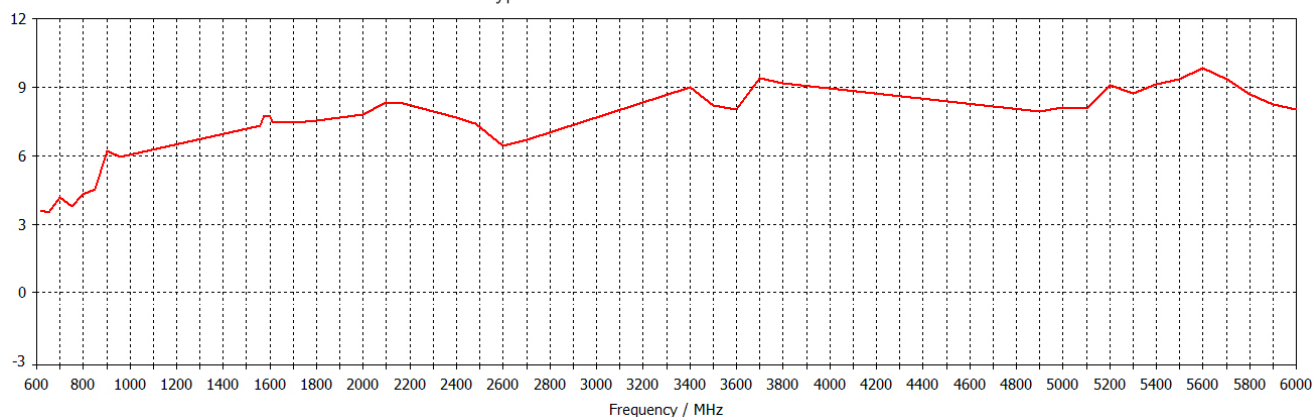
\* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical Efficiency- 4G/5G Elements\*



\* Efficiency modelled with CST Microwave Studio and ignores cable losses

Typical Peak Gain - 4G/5G Elements\*



\*Swept peak gain modelled with all elements fed in CST Microwave Studio on a 600x600mm (2'x2') ground plane excluding cable loss