

2x2 MiMo 4G/5G Dome Antenna Kit

LG-IN2448



**Low Profile 2x2 4G/5G MiMo
6x6 MiMo Dual Band WiFi
GPS/GNSS Active Antenna 26dB LNA**

The LG-IN2448 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 and 6x6 MiMo WiFi 2.4/5.0GHz.

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.



**Certified IK10
Impact Resistant**



**Certified IP69K
Ingress Protected**



**Flame Retardant
Halogen Free
Radome -UL94-V0**

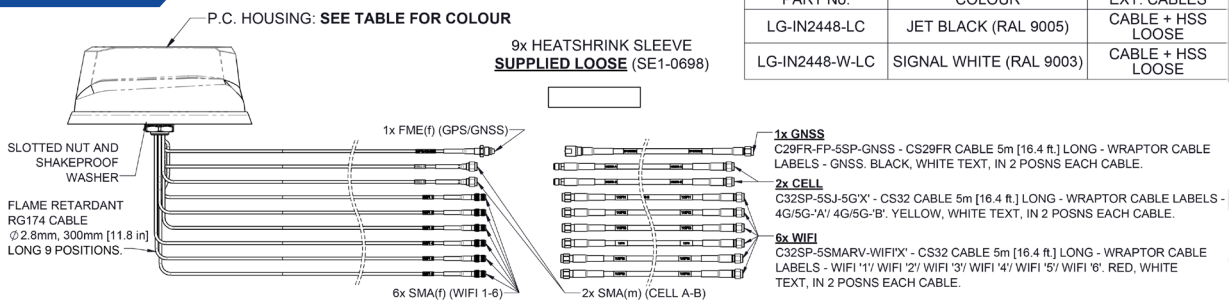


**UV, Ozone, High &
Low Temperature
Protected**

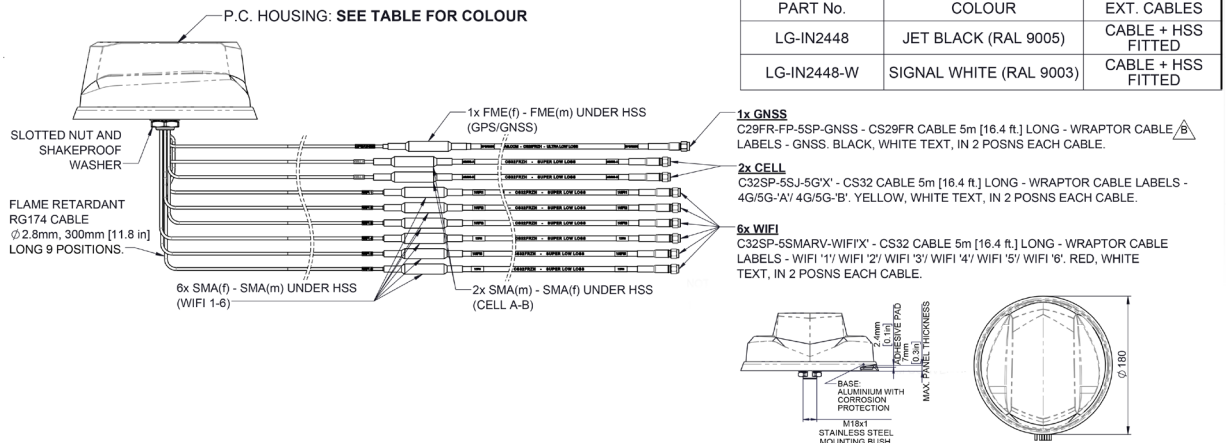


**Environmentally
Compliant - Meets
RoHS, REACH - PVC
Free**

Technical Drawing



PART No.	COLOUR	EXT. CABLES
LG-IN2448-LC	JET BLACK (RAL 9005)	CABLE + HSS LOOSE
LG-IN2448-W-LC	SIGNAL WHITE (RAL 9003)	CABLE + HSS LOOSE



PART No.	COLOUR	EXT. CABLES
LG-IN2448	JET BLACK (RAL 9005)	CABLE + HSS FITTED
LG-IN2448-W	SIGNAL WHITE (RAL 9003)	CABLE + HSS FITTED

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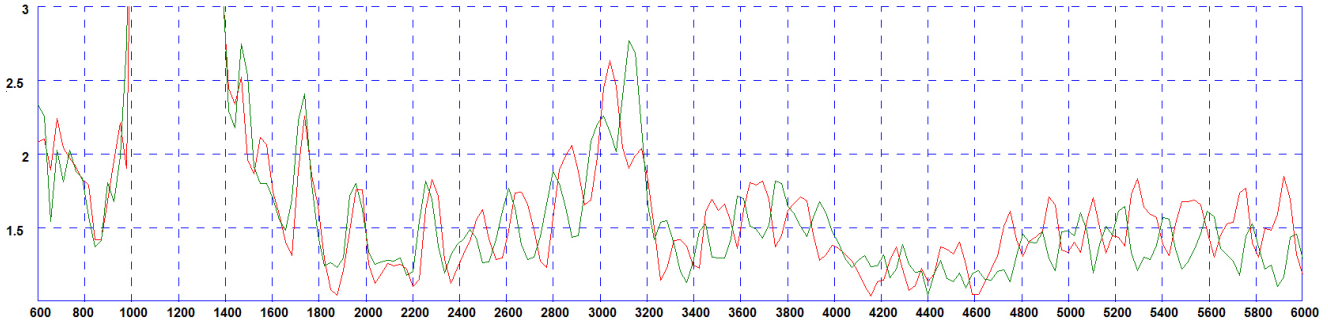
Part No.		LG-IN2448-W	LG-IN2448-W-LC	LG-IN2448	LG-IN2448-LC	
Electrical Data						
Frequency Range (MHz)	4G/5G	2x 617-960 / 1710-6000				
	WiFi Elements	6x 2.4/4.9-6GHz				
Peak Gain: Isotropic : All Elements Fed	4G/5G Elements	617-960MHz	5			
		1710-	9			
	WiFi Elements	4900-	10			
		2.4GHz	8			
		4.9-6.0GHz	10			
Typical Efficiency	4G/5G	>70%				
	WiFi Elements	>80%				
Isolation	4G/5G	>12dB				
	Wifi Elements	>20dB				
Correlation Co-efficient	4G/5G	< 0.1				
	WiFi 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	24dB					
Operating Voltage	3 - 5V DC					
Typical 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						
All Cables	Type	GPS Cables		All Other Cables		
		FR CS29 (UN118.03 / EN45545-2 HL2 Compliant)		CS32 (UN118.03 / EN45545-2 Compliant)		
	Fitted		Loose		Fitted	
	Loose		Fitted		Loose	
	Diameter (mm)	5 (0.2")				
Length (m)	5 (16')					
Terminations						
4G/5G	2x SMA (m)					
WiFi	6x Reverse Polarity SMA					
GPS/GNSS	1x SMA(m)					

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Electrical Data

Typical VSWR - 4G/5G Elements*



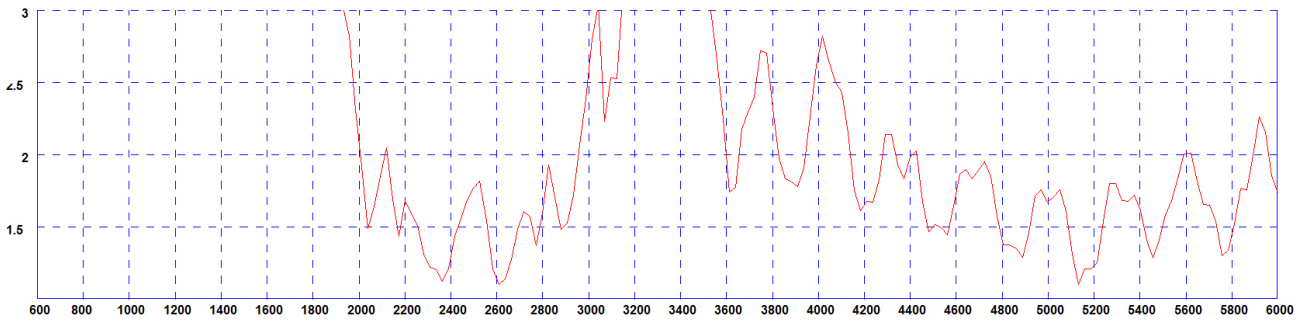
* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical Isolation - 4G/5G Elements*



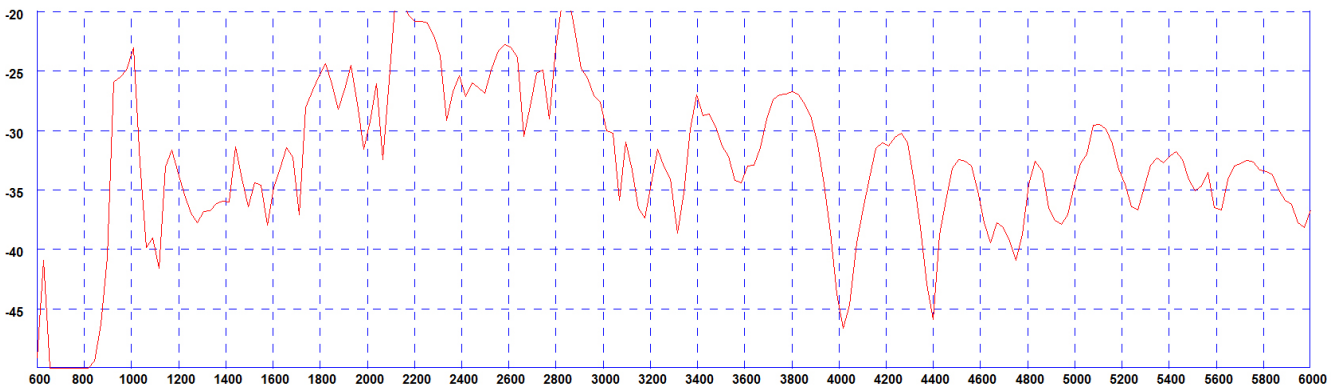
* measured with 0.5m (1.5') of RG174 cable on a 600x600mm (2'x2') groundplane

Typical VSWR - WiFi Elements*



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

Typical Isolation - WiFi Elements*



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