

Low Profile 4x4 4G/5G MiMo LTE GPS/GNSS Active Antenna 26dB LNA



The LG-IN2444 range has been designed to provide 4x4 4G/5G MiMo performance from 617-960/1710-6000MHz combined with GPS/GNSS in a compact low profile housing.

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 radome is available in black or white and meets IK10 for vandal resistance and IP69K for ingress protection.

The integrated GPS/GNSS module supports GPS, Glonass, Galileo, QZSS and Compass with 26dB LNA gain. This GPS module features advanced filtering for LTE B13/14 designed to minimise potential in band interference.

LG-IN2444 is supplied as a complete plug and play kit with integrated 5m (16') ultra-low loss TPE extension cables and SMA (m) connectors for 4G/5G and GPS.



Certified IK10 Impact Resistant



Certified IP69K Ingress Protected



Flame Retardant Halogen Free Radome -UL94-V0

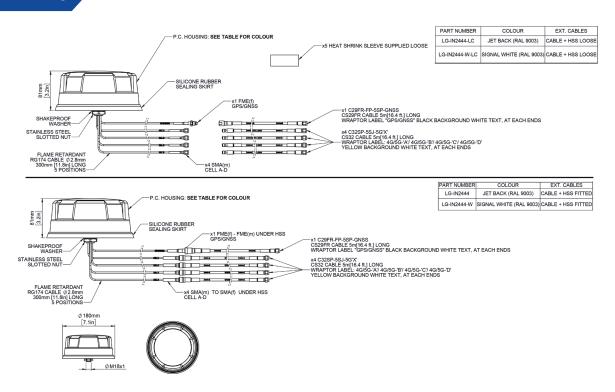


UV, Ozone, High & Low Temperature Protected



Environmentally Compliant - Meets RoHS, REACH - PVC Free

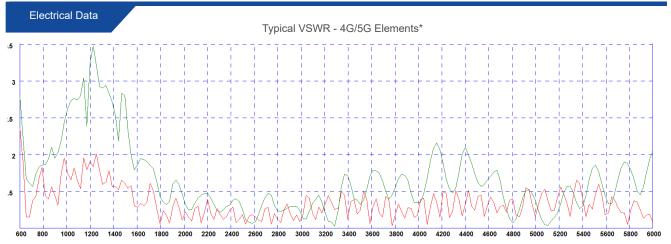
Technical Drawing



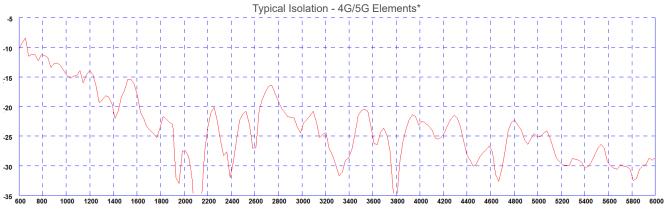
4x4 MiMo 4G/5G Dome Antenna Kit LG-IN2444



Part No.		LO INIO444 W	LO INIO444 W.LO	1.0.100444	10 10044410	
		LG-IN2444-W	LG-IN2444-W-LC	LG-IN2444	LG-IN2444-LC	
Electrical Data						
Frequency Range (M	Hz) 4G/5G Elements		4x 617-960 / 1710-6000			
Peak Gain: Isotropic : (d		617-960MHz	4			
	(dBi)+ 4G/5G Elements	1710-3800MHz		8		
		4900-6000MHz	9			
Typical Efficiency **		617-960MHz	>50%			
	4G/5G Elements	1710-3800MHz	>	>75%		
		4900-6000MHz	>	>85%		
Isolation ***	4G/5G Elements	5	>	10dB		
Correlation Co-efficient 4G/5G Elements		3	< 0.2			
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		80 (3.1")			
	Diameter		180 (7.1")			
Operating Temp			-40°/ +80°C	(-40° / +176°F)		
Colour			White	В	lack	
Ingress & Impact Prof	tection		IK10	& IP69K		
Mounting Data						
Mounting type			Panel mount			
Max panel thickness (mm)			7 (0.27")			
Mounting hole (mm)			19	0 (3/4")		
Extension Cable Data	3		GPS Cable	All Oth	er Cables	
All Cables	Туре	FR CS29 (UN118.03 / E	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			4x SMA (m)			
GPS/GNSS			1x SMA(m)			



^{*} Green Trace measured with 0.5m (1.5') of RG174 cable Red Trace measured with 5m(17') of CS32 Cable both on a 600x600mm (2'x2') groundplane



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

