

Low Profile Multifunction Puck Antenna

L[G]P-7-38[-24-58]



Low Profile Multifunction Puck Antenna

- Low Profile 'Hockey Puck' Design
- 3G/4G+ Optional WiFi & GPS/GNSS Functionality
- Suitable for M2M and IOT Installations

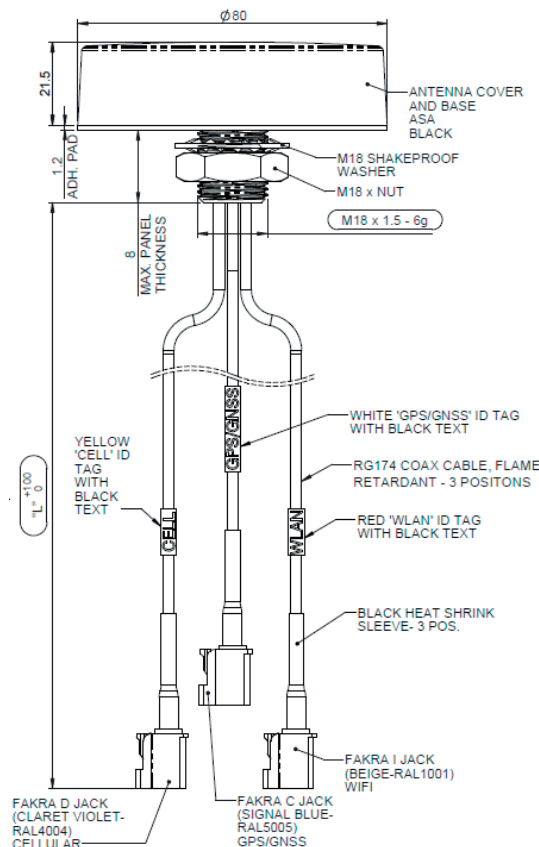
The Panorama L[G]P-7-38[-24-58] range is designed to decrease the lifetime cost of M2M and IOT applications by offering a robust low profile antenna with an extremely compact envelope.

Ideal for situations where a robust but discreet solution is required the antenna covers 698-960/1710-3800MHz + optional 2.4/5.0GHz WiFi and optional GPS/GNSS with a 26dB LNA.

The antenna is suitable for non-conductive panels and can be mounted via the 19mm (3/4") mounting bush and is fitted with 3 RG174 cables and either FAKRA or SMA connectors.

Technical Drawing

LGP-7-38-24-58-3FK Shown



Low Profile Multifunction Puck Antenna

L[G]P-7-38[-24-58]

Product Data

Part No.		LGP-7-38-24-58-3SP	LGP-7-38-24-58-3FK	LGP-7-38-24-58-1FK	LGP-7-38-24-58-1SP	
Electrical Data						
Frequency Range (MHz)	Element 1	698-960/1710-3800				
	Element 2	2400-2485/4900-6000				
	Element 3	1562-1612				
Peak Gain†	Element 1: 698-960MHz	0dBi				
	Element 1: 1710-3800MHz	2dBi				
	Element 2: 2.4GHz	2dBi				
	Element 2: 5.0GHz	4dBi				
Typical VSWR	<2.5:1					
Polarisation	Vertical					
Pattern	Omni-directional					
Impedance	50Ω					
Max input power (W)	20					
GPS/GNSS Data						
Frequency Range (MHz)	1562-1612Mhz					
LNA Gain (dB)	26dB					
Typical Current (mA)	15					
Typical Voltage	3-5 VDC					
Mechanical Data						
Dimensions (mm)	Height	22.5 (0.88")				
	Diameter	80 (3.14")				
Operating Temp (°C)	-40° / +85°C (-40° / 185°F)					
Material	ASA					
Colour	Black					
Mounting Data						
Fixing	Panel mount 19mm (3/4")					
Cable Data						
Cable 1: Cellular	Cable Type	RG174 (meets UN ECE 118)				
	Diameter (mm)	2.8 (0.11")				
	Length (m)	3 (10')		1 (3' 3")		
	Termination	SMA(m)	FAKRA D (Burgundy) Jack	FAKRA D (Burgundy) Jack	SMA(m)	
	Cable 2: WiFi	Cable Type	RG174 (meets UN ECE 118)			
Cable 2: WiFi	Diameter (mm)	2.8 (0.11")				
	Length (m)	3 (10')		1 (3' 3")		
	Termination	SMA Rev Pol	FAKRA I (Beige) Jack	FAKRA I (Beige) Jack	SMA Rev Pol	
	Cable 3: GPS/ GNSS	Cable Type	RG174 (meets UN ECE 118)			
		Diameter (mm)	2.8 (0.11")			
Length (m)		3 (10')		1 (3' 3")		
Termination		SMA(m)	FAKRA C (Blue) Jack	FAKRA C (Blue) Jack	SMA(m)	

Low Profile Multifunction Puck Antenna

L[G]P-7-38[-24-58]

Product Data

Part No.		LGP-7-38-3SP	LGP-7-38-3FK	LGP-7-38-1FK	LGP-7-38-1SP
Electrical Data					
Frequency Range (MHz)	Element 1	698-960/1710-3800			
	Element 2	1562-1612			
Peak Gain†	Element 1: 698-960MHz	0dBi			
	Element 1: 1710-3800MHz	2dBi			
Typical VSWR		<2.5:1			
Polarisation		Vertical			
Pattern		Omni-directional			
Impedance		50Ω			
Max input power (W)		20			
GPS/GNSS Data					
Frequency Range (MHz)		1562-1612Mhz			
LNA Gain (dB)		26dB			
Typical Current (mA)		15			
Typical Voltage		3-5 VDC			
Mechanical Data					
Dimensions (mm)	Height	22.5 (0.88")			
	Diameter	80 (3.14")			
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)			
Material		ASA			
Colour		Black			
Mounting Data					
Fixing		Panel mount 19mm (3/4")			
Cable Data					
Cable 1: Cellular	Cable Type	RG174 (meets UN ECE 118)			
	Diameter (mm)	2.8 (0.11")			
	Length (m)	3 (10')		1 (3' 3")	
	Termination	SMA(m)	FAKRA D (Burgundy) Jack	FAKRA D (Burgundy) Jack	SMA(m)
Cable 2: GPS/GNSS	Cable Type	RG174 (meets UN ECE 118)			
	Diameter (mm)	2.8 (0.11")			
	Length (m)	3 (10')		1 (3' 3")	
	Termination	SMA(m)	FAKRA C (Blue) Jack	FAKRA C (Blue) Jack	SMA(m)

Low Profile Multifunction Puck Antenna

L[G]P-7-38[-24-58]

Part No.		LPP-7-38-24-58-3SP	LPP-7-38-24-58-3FK	LPP-7-38-24-58-1FK	LPP-7-38-24-58-1SP
Electrical Data					
Frequency Range (MHz)	Element 1	698-960/1710-3800			
	Element 2	2400-2485/4900-6000			
Peak Gain†	Element 1: 698-960MHz	0dBi			
	Element 1: 1710-3800MHz	2dBi			
	Element 2: 2.4GHz	2dBi			
	Element 2: 5.0GHz	4dBi			
Typical VSWR		<2.5:1			
Polarisation		Vertical			
Pattern		Omni-directional			
Impedance		50Ω			
Max input power (W)		20			
Mechanical Data					
Dimensions (mm)	Height	22.5 (0.88")			
	Diameter	80 (3.14")			
Operating Temp (°C)		-40° / +85°C (-40° / 185°F)			
Material		ASA			
Colour		Black			
Mounting Data					
Fixing		Panel mount 19mm (3/4")			
Cable Data					
Cable 1: Cellular	Cable Type	RG174 (meets UN ECE 118)			
	Diameter (mm)	2.8 (0.11")			
	Length (m)	3 (10')		1 (3' 3")	
	Termination	SMA(m)	FAKRA D (Burgundy) Jack	FAKRA D (Burgundy) Jack	SMA(m)
Cable 2: WiFi	Cable Type	RG174 (meets UN ECE 118)			
	Diameter (mm)	2.8 (0.11")			
	Length (m)	3 (10')		1 (3' 3")	
	Termination	SMA Rev Pol	FAKRA I (Beige) Jack	FAKRA I (Beige) Jack	SMA Rev Pol

Low Profile Multifunction Puck Antenna

L[G]P-7-38[-24-58]

Product Data

Part No.

LPP-7-38-3SP LPP-7-38-3FK LPP-7-38-1FK LPP-7-38-1SP

Electrical Data

Frequency Range Element 1 698-960/1710-3800

Peak Gain† Element 1: 698-960MHz 0dBi

Element 1: 1710- 2dBi

Typical VSWR <2.5:1

Polarisation Vertical

Pattern Omni-directional

Impedance 50Ω

Max input power (W) 20

Mechanical Data

Dimensions (mm) Height 22.5 (0.88")

Diameter 80 (3.14")

Operating Temp (°C) -40° / +85°C (-40° / 185°F)

Material ASA

Colour Black

Mounting Data

Fixing Panel mount 19mm (3/4")

Cable Data

Cable Type RG174 (meets UN ECE 118)

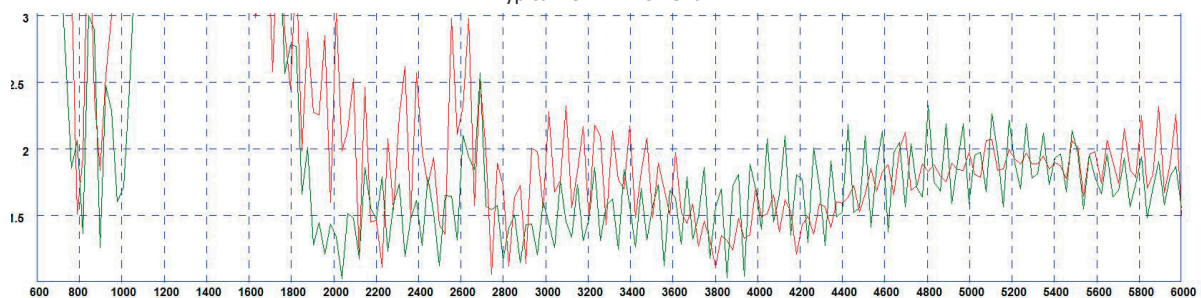
Diameter (mm) 2.8 (0.11")

Cable 1: Cellular Length (m) 3 (10') 1 (3' 3")

Termination SMA(m) FAKRA D (Burgundy) FAKRA D (Burgundy) SMA(m)

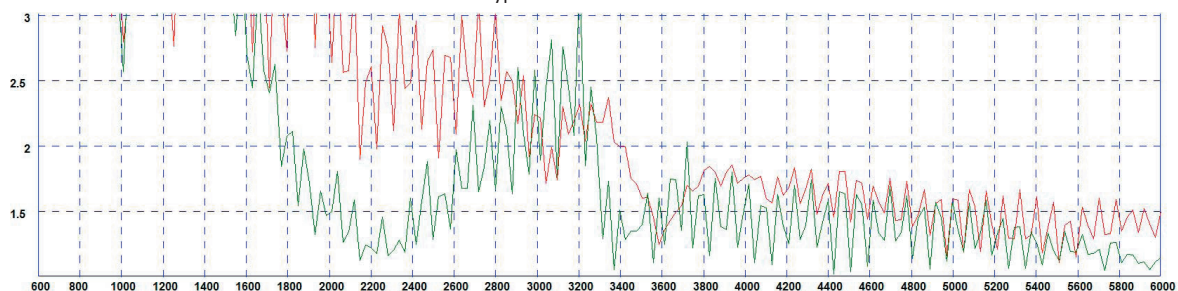
Product Data

Typical VSWR - Element 1*



*Red Trace = VSWR measured on a ground plane Green trace = VSWR measured in free space both with 1.25m (4'1") of RG174 cable

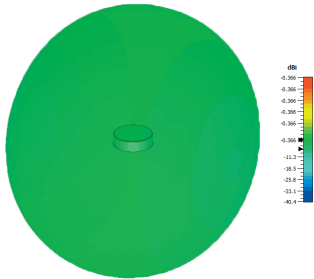
Typical VSWR - Element 2*



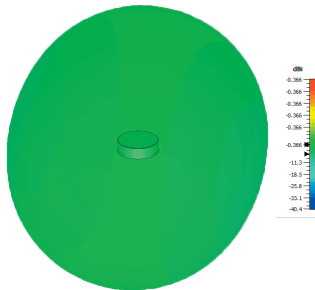
Red Trace = VSWR measured on a ground plane Green trace = VSWR measured in free space both with 1.25m (4'1") of RG174 cable

3D Patterns Cell

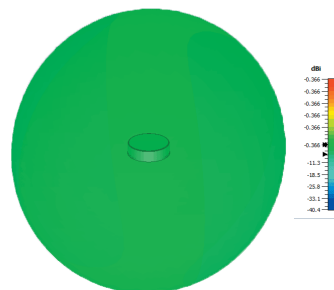
Typical 3D Pattern 700MHz



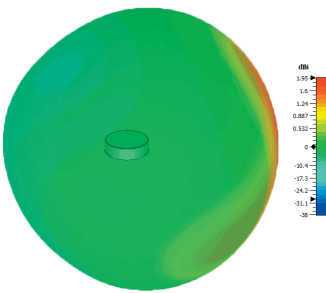
Typical 3D Pattern 800MHz



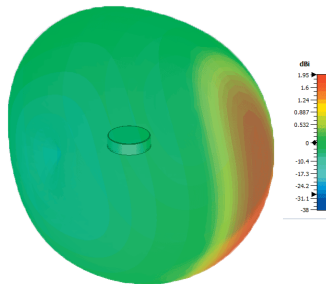
Typical 3D Pattern 900MHz



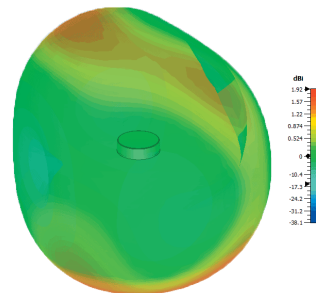
Typical 3D Pattern 1800MHz



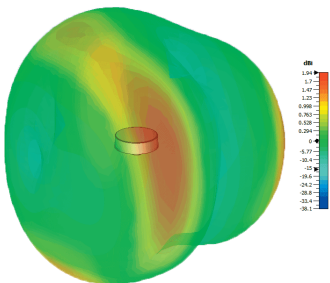
Typical 3D Pattern 2000MHz



Typical 3D Pattern 2600MHz

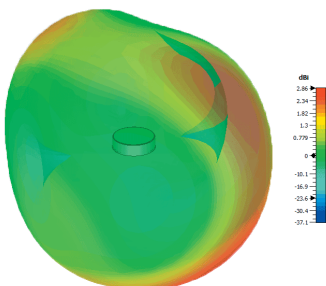


Typical 3D Pattern 3600MHz



3D Patterns WiFi

Typical 3D Pattern 2450MHz



Typical 3D Pattern 5400MHz

