

Multifunction Low Profile Antenna

L[G]-S[X]-7-38-[X24-58]

PANORAMA ANTENNAS



L[G]-S[X]-7-38-[X24-58]

Low profile rugged housing

Multiple UHF Frequencies, GPS/GNSS,

4G/3G/2G & Up to 2x2 MiMo 2.4/5.0GHz

Tuned for use on non-conductive mounting panel

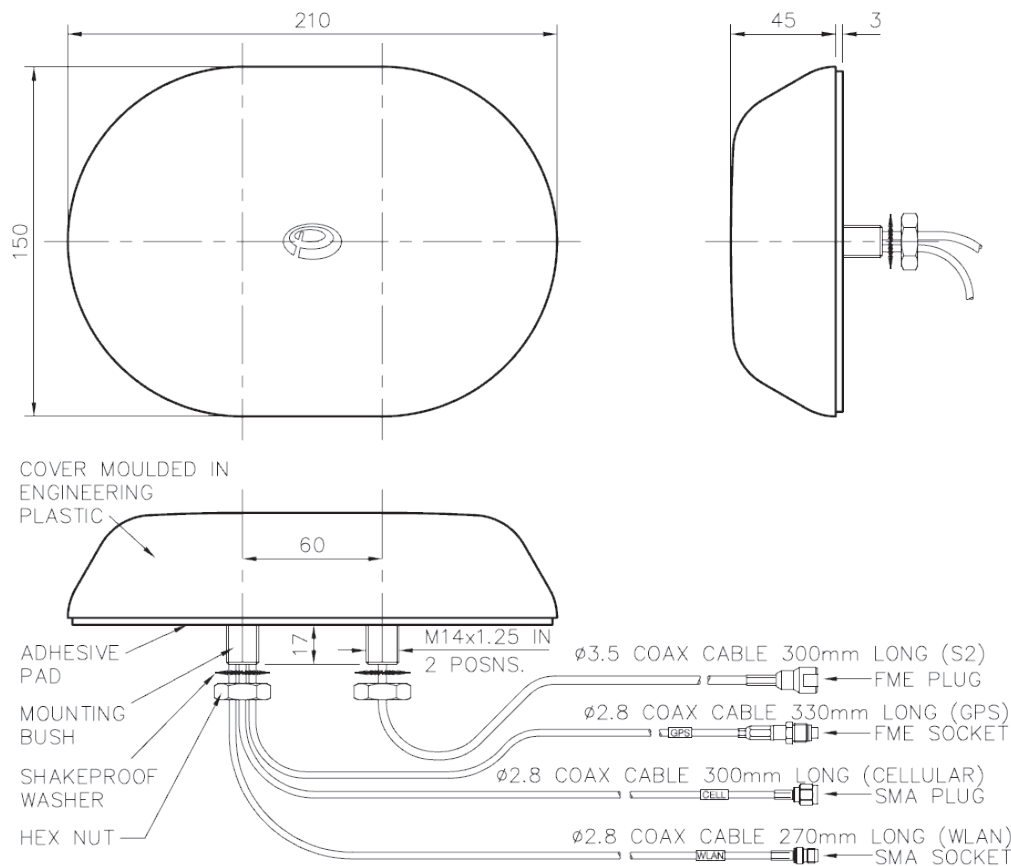
The L[G]-S[X]-7-38-[X24-58] is a compact low profile antenna housing that contains multiple antenna elements covering 4G/3G/2G, an active antenna for GPS/GLONASS/Galileo/Beidou with 26dB gain LNA, a Low profile UHF element and also 1x or 2x 2.4/5.8GHz WiFi elements.

The low profile design provides multiple antenna functions in a single compact and robust package which is ideal for demanding transportation and public safety applications. The antenna is fitted with pigtail cables which are compatible with a range of suitable Panorama Antennas coaxial cables.

The antenna can be tuned for mounting on metal or conductive panels. Contact Panorama Antennas Ltd for more details.

Technical Drawing

LG-S4-7-38-24-58 Shown



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Product Data

Part No.				
		LG-S1-7-38-D24-58	LG-S2-7-38-D24-58	LG-S4-7-38-D24-58
Electrical Data				
Frequency Range (MHz)	Element 1	380-400	410-430	450-470
	Element 2	698-960, 1710-3800		
	Element 3 & 4	2x 2.4/5.0GHz		
	Element 5	1562-1612		
Operational Bands	Element 1	S1	S2	S4
	Element 2	4G/3G/2G		
	Element 3 & 4	2x WiFi		
	Element 5	GPS / GNSS / Galileo / Beidou		
Peak Gain: Isotropic*	Element 1	-2dBi		
	Element 2	1dBi		
	Element 3 & 4	2dBi (2.4GHz) 5dBi (5.4GHz)		
Polarisation			Vertical	
Pattern			Omni-directional	
Impedance			50Ω	
Max input power (W)			20	
GPS/GNSS Data				
Frequency Range (MHz)			1562-1612	
VSWR			<2:1 ± 4MHz	
Gain: LNA			26dB	
Polarisation			Right Hand Circular	
Operating Voltage			3-5VDC	
Current			Typical <20mA	
Mechanical Data				
Dimensions (mm)	Length	210 (8.27")		
	Width	150 (5.9")		
	Height	48 (2.1")		
Operating Temp (°C)			-40° / +80°C (-40° / 176°F)	
Material			ASA, Aluminium Alloy	
Colour			White	
Mounting Data				
Fixing			Panel Mount	
Hole Size (mm)			2x 14 (0.56")	
Cable Data				
Cable Type - All Feeds			FR RG174 (UN ECE 118 Compliant)	
Dimensions (mm)	Diameter	2.8 (0.11")		
	Length	300 mm (12")		
Termination	UHF	FME plug		
	GPS/GNSS	FME socket		
	4G/3G/2G	SMA plug		
	2 x WiFi	SMA (f)		

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	Element 3	2.4/5.0GHz		
	Element 4	1562-1612		
Operational Bands	Element 1	S1	S2	S4
	Element 2	4G/3G/2G		
	Element 3	1x WiFi		
	Element 4	GPS / GNSS / Galileo / Beidou		
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	Element 2	1dBi		
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	4G/3G/2G	SMA plug		
	1 x WiFi	SMA (f)		

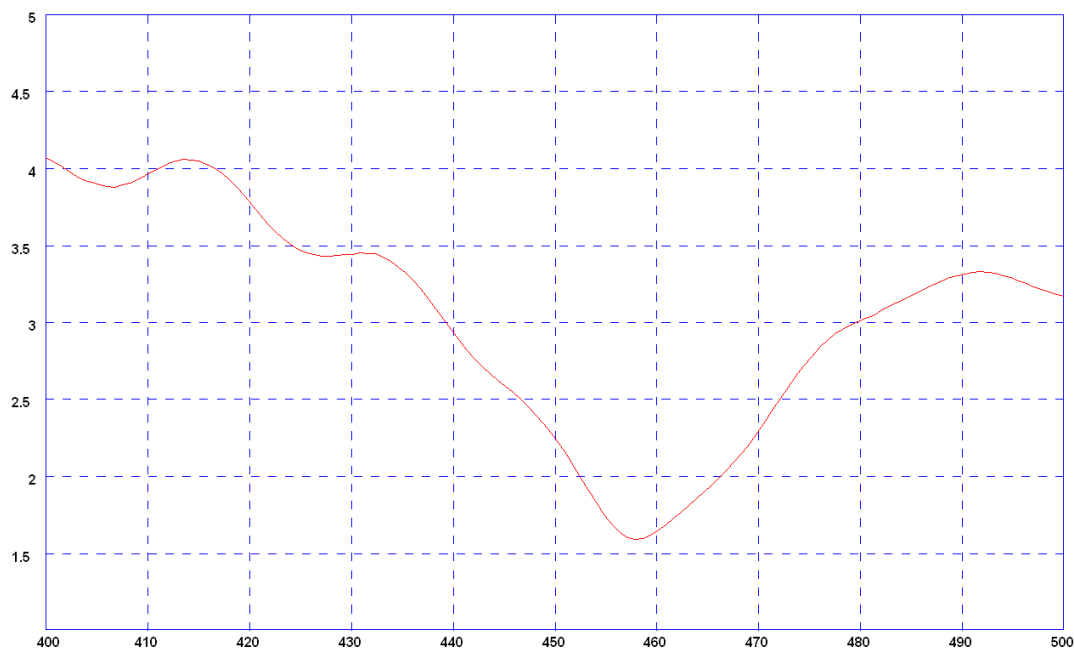
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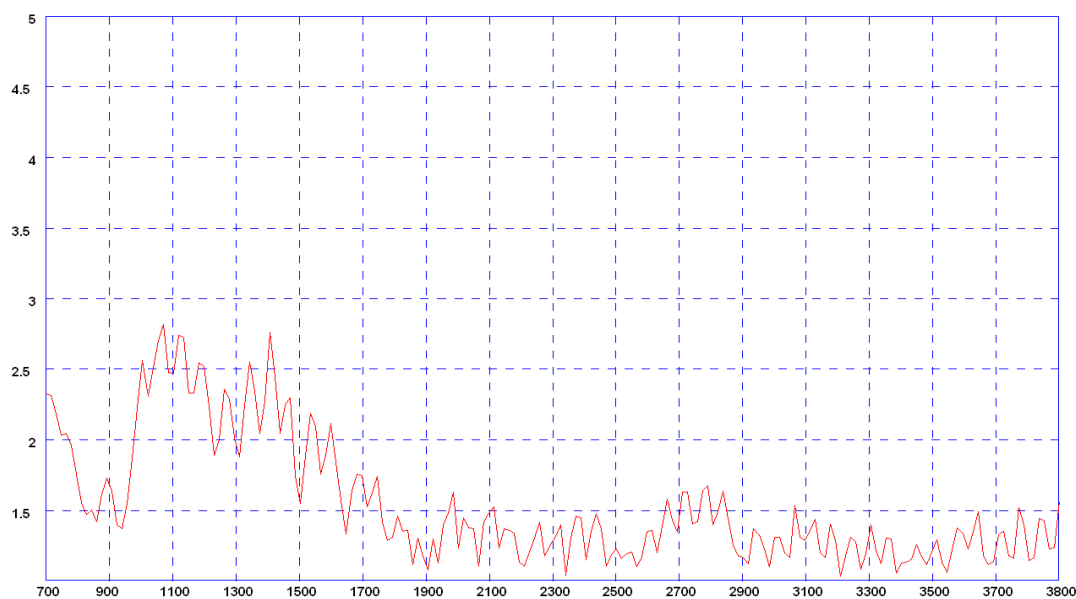
Electrical Data - VSWR

Typical VSWR Element 1 - UHF*



*VSWR for S4 band shown measured in free space with 5m (16') of CS23 cable

Typical VSWR - Element 2 - Cellular*



*VSWR measured in free space with 5m (16') of CS29 cable

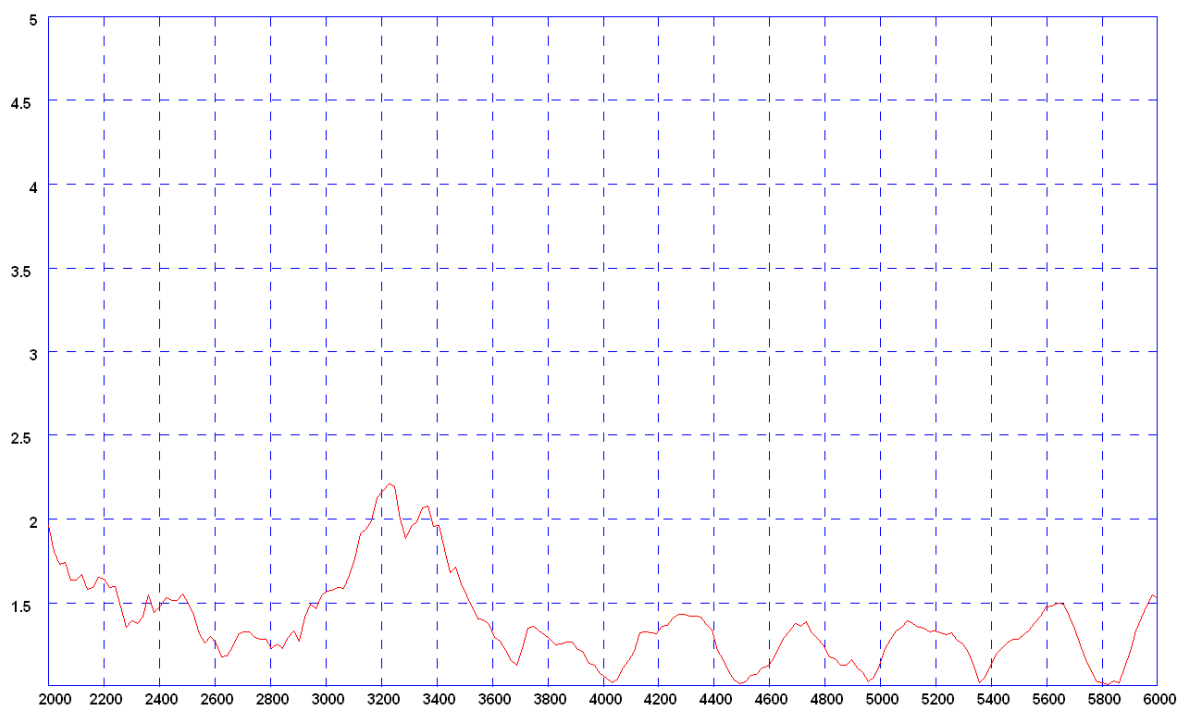
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Electrical Data - VSWR

Typical VSWR Element 3/4 - WiFi*



*VSWR measured in free space with 5m (16') of CS32 cable