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



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

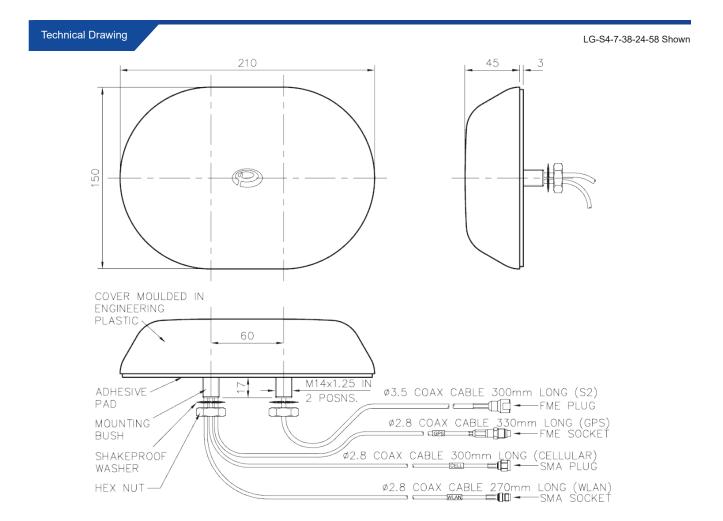
Low profile rugged housing
Multiple UHF Frequencies, GPS/GNSS,
4G/3G/2G & Up to 2x2 MiMo 2.4/5.0GHz

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.



Multifunction Low



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

				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 (N	ЛHz)		1562-1612		
VSWR			<2:1 ± 4MHz		
Gain: LNA			26dB		
Polarisation			Right Hand Circular		
Operating Voltage			3-5VDC		
Current			Typical <20mA		
Mechanical Data					
	Length		210 (8.27")		
Dimensions (mm)	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 Fee	ds		FR RG174 (UN ECE 118 Compliant)		
Dimensions (mm)	Diameter		2.8 (0.11")		
Simonoiono (IIIIII)	Length		300 mm (12")		
Termination	UHF		FME plug		
	GPS/GNSS		FME socket		
	4G/3G/2G		SMA plug		
	2 x WiFi		SMA (f)		

Multifunction Low Profile Antenna

PANORAMA (PANTENNAS

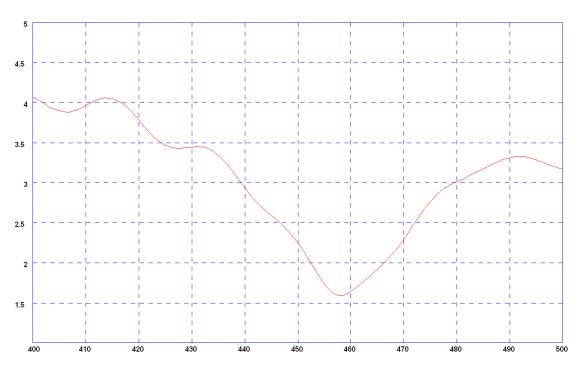
L[G]-S[X]-7-38-[X24-58]

Product Data

		LG-S1-7-38-24-58	LG-S2-7-38-24-58	LG-S4-7-38-24-58		
Electrical Data		LG-31-7-30-24-30	LG-52-1-30-24-30	LG-54-7-30-24-30		
riectifical Data	Element 1	380-400	410-430	450-470		
	Element 2	300-400	698-960, 1710-3800	430-470		
requency Range						
(MHz)	Element 3		2.4/5.0GHz			
	Element 4		1562-1612			
	Element 1	S1	S2	S4		
Operational Bands	Element 2		4G/3G/2G			
	Element 3		1x WiFi			
	Element 4		GPS / GNSS / Galileo / Beidou			
Peak Gain:	Element 1		-2dBi			
Peak Gain: Isotropic*	Element 2		1dBi			
	Element 3		2dBi (2.4GHz) 5dBi (5.4GHz)			
Polarisation			Vertical			
Pattern			Omni-directional			
mpedance			50Ω			
Max input power (W)		20			
GPS/GNSS Data						
Frequency Range (MHz)			1562-1612			
SWR			<2:1 ± 4MHz			
Gain: LNA		26dB				
Polarisation			Right Hand Circular			
Operating Voltage			3-5VDC			
Current			Typical <20mA			
Mechanical Data						
	Length		210 (8.27")			
Dimensions (mm)	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						
ixing			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			
	1 x WiFi		SMA (f)			

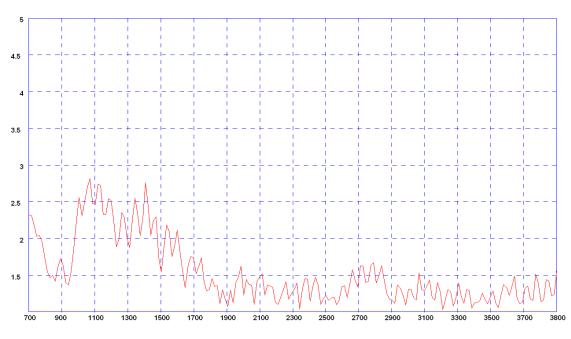
Electrical Data - VSWR

Typical VSWR Element 1 - UHF*



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

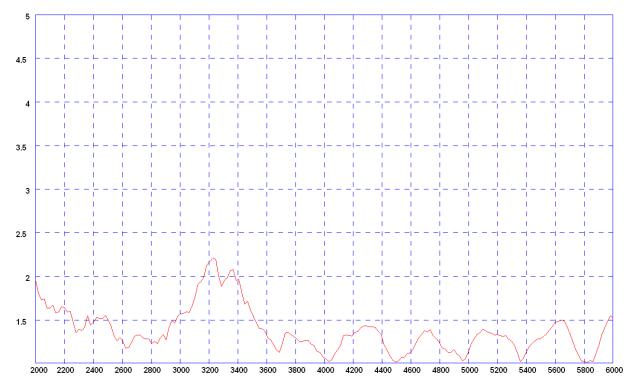
Typical VSWR - Element 2 - Cellular*



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

Electrical Data - VSWR

Typical VSWR Element 3/4 - WiFi*



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