UHF Low Profile Antenna

LG460



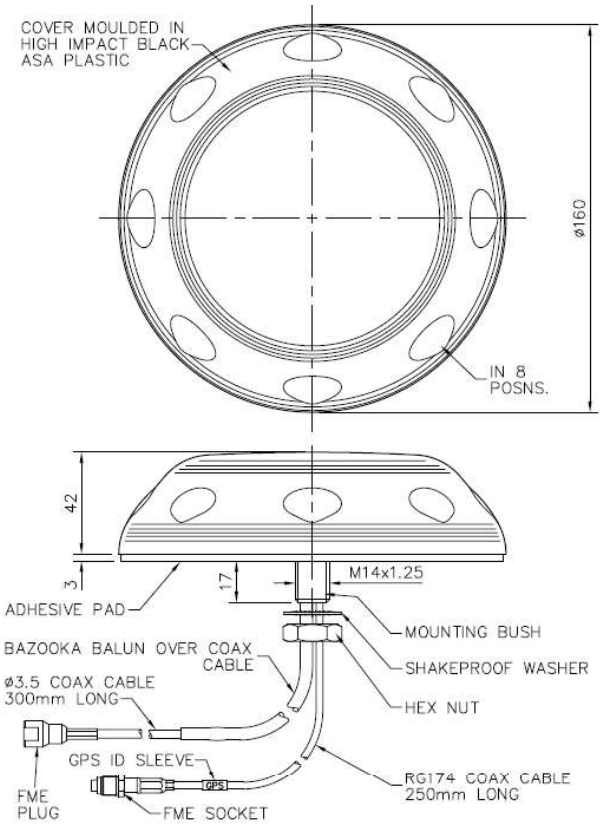
- Ideal for transport/ emergency service fleets
- Rugged design + durable
- Low profile housing
- No ground plane required

The Panorama low profile antenna range has been designed to perform under extreme pressure. The outer housing is designed to withstand high impacts while maintaining functionality.

The antenna does not require a metallic ground plane and is tuned for mounting on non-metallic surfaces as standard*.

*Performance may vary if the product is mounted on a conductive ground plane Panorama can supply the product tuned to this mounting scenario

Technical Drawing



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11/12/2019 V1

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Electrical Data

Part No.			
		LG460	
Electrical Data			
Frequency Range (MHz)		450-470	
Peak Gain: Isotropic		2dBi	
Compared to ¼ wave		0dB	
Polarisation		Vertical	
Pattern		Omni Directional	
Impedance		50Ω	
Max Input Power (W)		20	
GPS Data			
Frequency Range (MHz)		1575	
VSWR		< 2.0:1 ± 4MHz	
Gain: LNA		26dB	
Polarisation		Right Hand Circular	
Operating Voltage		3 - 5V DC (fed via coax)	
Current		Typical 15mA	
Mechanical Data			
Dimensions (mm)	Height	42 (1.65")	
	Diameter	160 (6.3")	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Material		A.S.A	
Colour		Black	
Ingress Protection		IP65 (certificate no. 6267/2)	
Mounting Data			
Fixing		Panel mount	
Mounting hole size (mm)		14 (0.6")	
Cable Data		**Comms**	**GPS**
Type		C35	RG174
Thickness (mm)		3.5 (0.1")	2.8 (0.1")
Length (m)		0.5 (1.5')	0.5 (1.5')
Termination		FME plug	FME Socket

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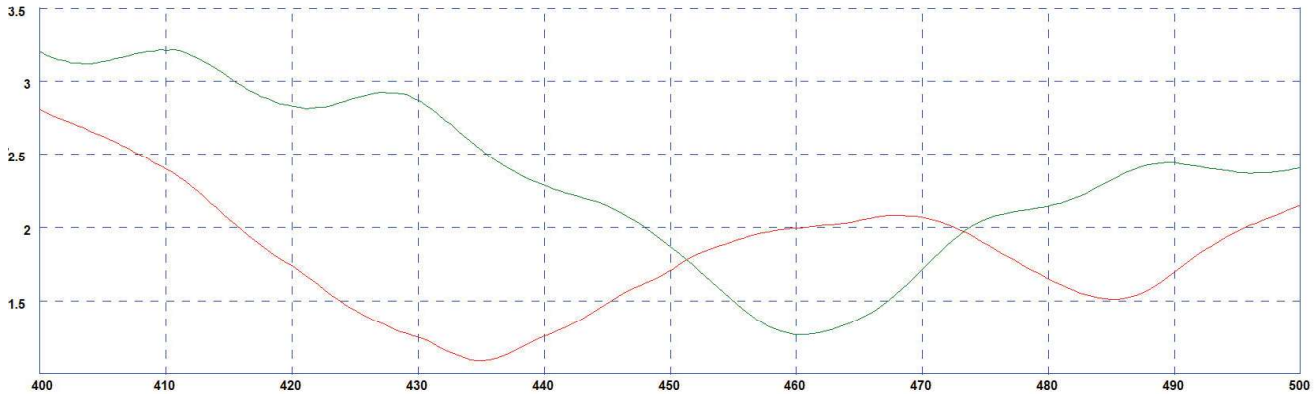
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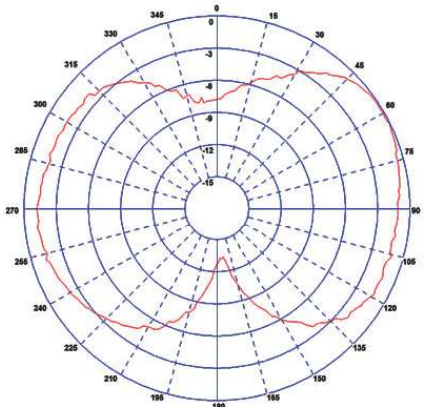
Electrical Data

Typical VSWR*

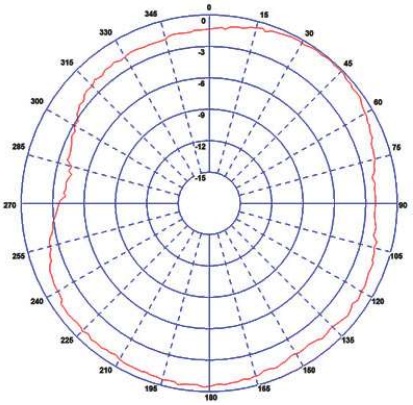


* Green Trace measured in free space Red Trace measured on 600x600mm (2'x2') ground plane bit traces measuer with 5m (17') of CS23 cable

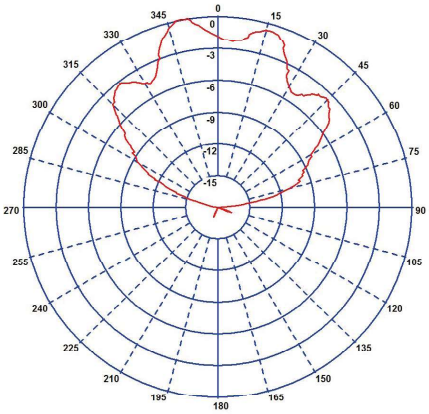
Typical E-Plane (460MHz)



Typical H-Plane (460MHz)



Typical E-Plane (GPS)



Typical radiation patterns measured in free space.

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