

Sharkee™ Multi-function Sharkfin Antenna

GPSB

PANORAMA ANTENNAS



GPSB

- OEM Shark fin Styling
- GPS/GNSS, 2G/3G/4G Cellular & 2.4/4.9-6GHz
- In one Housing
- Optional VHF or UHF Whip

The GPSB Sharkee™ provides antenna coverage for multiple technologies within one antenna housing. Trusted by public safety, utilities and transportation companies all over the world the GPSB sets the industry standard in functionality.

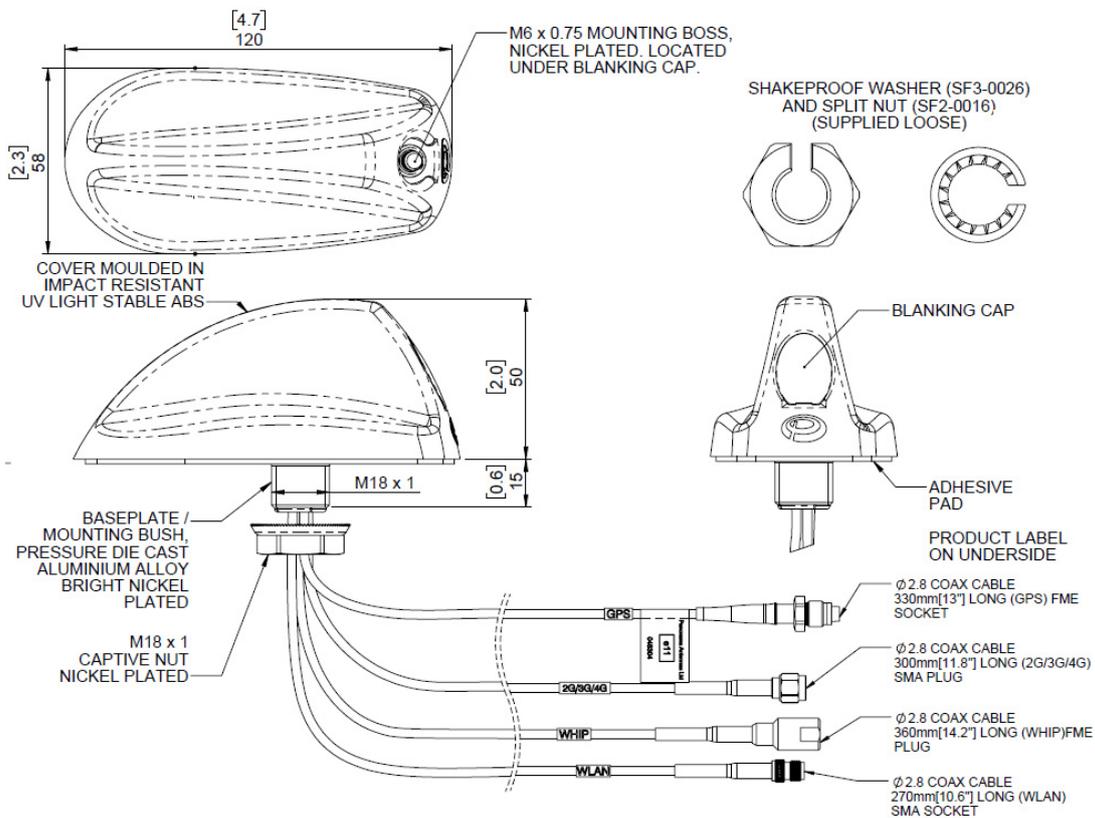
The GPSB offers three internal antenna systems, GPS/GNSS, 2G/3G/4G cellular, dualband WiFi and an optional whip mounting for VHF or UHF whips.

Requiring only a single hole fixing, the GPSB reduces vehicle damage, cost of installation and visual impact whilst protecting vehicle re-sale value.

The OEM shark fin style design provides multiple antenna functions while remaining discreet.

The GPSB is suitable for the public safety, industrial and transportation sectors, where a cost effective, efficient and robust antenna is essential to the application.

Technical Drawing



Sharkee™ Multi-function Sharkfin Antenna

GPSB

Part No.	GPSB			
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Electrical Data

Frequency Range (MHz)	Elements 1	1559-1612
	Element 2	698-960, 1710-2170, 2500-2700
	Element 3	2396-2485 & 4900-6000
	Element 4	Dependent on selected whip-
Operational Bands	Elements 1	GPS/GNSS
	Element 2	2G/3G/4G-
	Element 3	2.4/5.0GHz WiFi-
	Element 4	Dependent on selected whip
Peak gain: Isotropic	Element 2	1dBi
	Element 3	2dBi
Polarisation	Vertical	
Pattern	Omni-directional	
Impedance	50Ω	
Max input power (W)	Internal elements 25W / Main whip 60W	

GPS/GNSS Data

Frequency Range (MHz)	1559-1612
Typical VSWR	<2.5:1
Gain: LNA	30dB
Polarisation	Right Hand Circular
Operating Voltage	3-5V DC (fed via coax)
Current	< 20mA

Mechanical Data

Dimensions (mm)	Total Height	50 (2")
	Length	120 (4.72")
	Width	58 (2.3")
Operating Temp (°C)	-40° / +80°C (-40° / 176°F)	
Material	Impact resistant UV light stabilised ABS	
Colour	Black	
Ingress Protection	IP66 (Cert No. 45213)	
Weight (g)	215	

Cable Data

Element	Element 1 GPS/GNSS	Element 2 Cellular	Element 3 WLAN	Element 4 Whip
Cable Type	RG174			
Diameter (mm)	2.8 (0.11")			
Length (m)	330 (13")	300 (12")	270 (11")	360 (14")
Termination	FME Socket	SMA Plug	SMA Socket	FME Plug

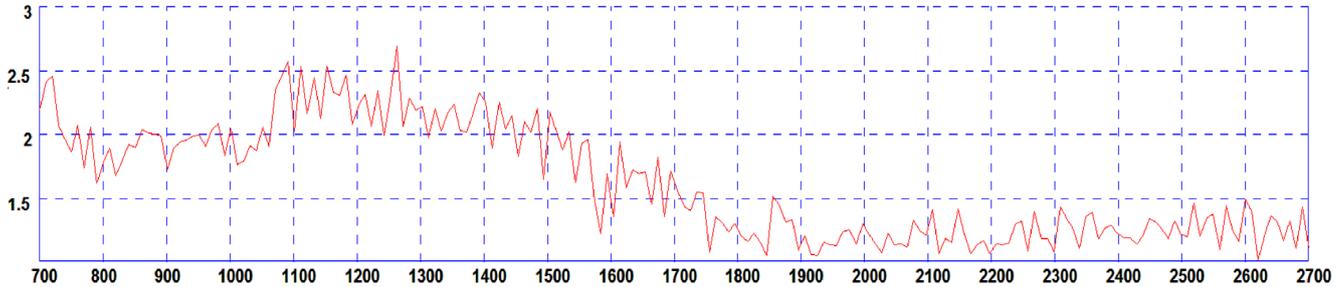
* Peak gain simulated with all elements fed on 600x600mm ground plane excluding cable loss

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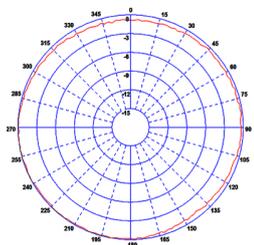
Electrical Data - Cell

Typical VSWR - Cellular Element*

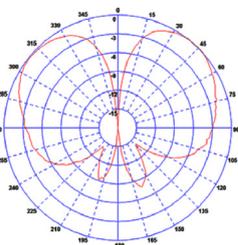


*VSWR measured with no whip and 5m (16') of CS29 cable on a 600x600mm (2'x2') groundplane.

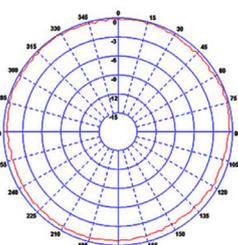
Typical H-Plane (750MHz)



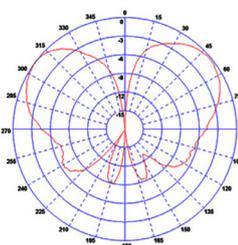
Typical E-Plane (750MHz)



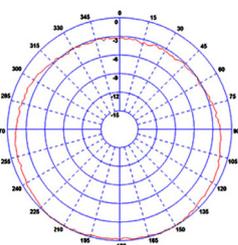
Typical H-Plane (850MHz)



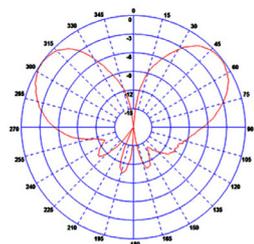
Typical E-Plane (850MHz)



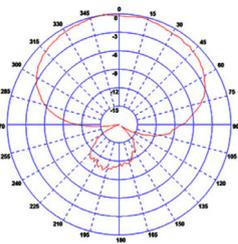
Typical H-Plane (900MHz)



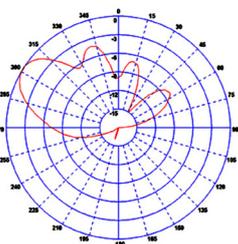
Typical E-Plane (900MHz)



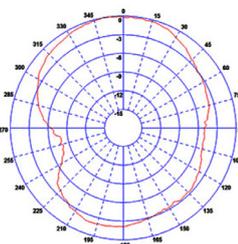
Typical H-Plane (1800MHz)



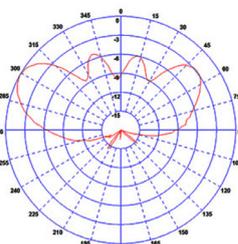
Typical E-Plane (1800MHz)



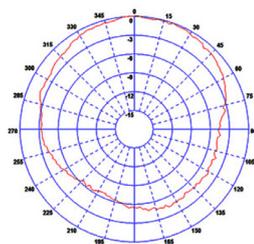
Typical H-Plane (1900MHz)



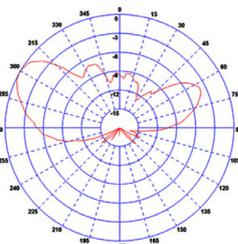
Typical E-Plane (1900MHz)



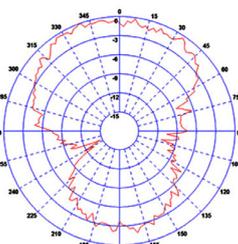
Typical H-Plane (2100MHz)



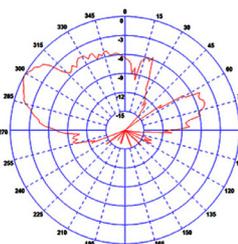
Typical E-Plane (2100MHz)



Typical H-Plane (2600MHz)



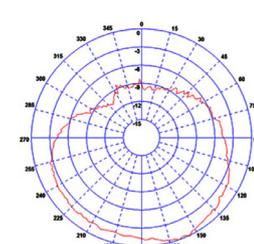
Typical E-Plane (2600MHz)



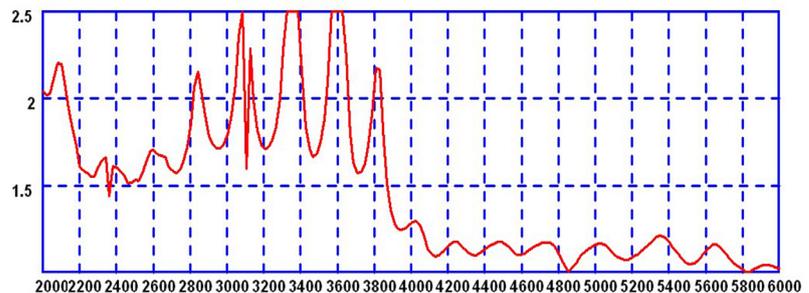
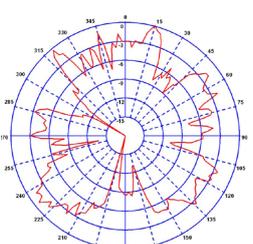
WLAN Data

Typical VSWR - WLAN Element*

Typical H-Plane (2400MHz)



Typical H-Plane (5400 MHz)



*VSWR measured without additional cable.