Multifunction MiMo Antenna GPSD

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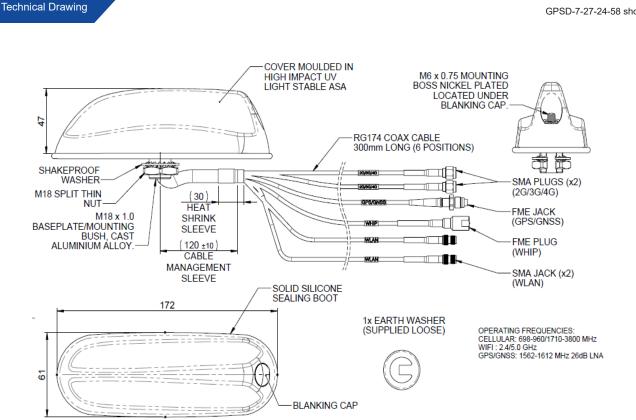


GPSD

- · OEM shark fin styling
- GPS/GNSS, MiMo 4G/3G/2G & Optional MiMo 2.4/4.9-6GHz
- Support for VHF or UHF external antenna

The GPSD has a compact OEM style shark fin housing that contains 2x2 MiMo antenna function for 4G/3G/2G and an active antenna for GPS/GLONASS/ Galileo/Beidou with 26dB gain LNA. In addition, there is an integral stud mount for an external antenna whip that can support a range of VHF, UHF or 700/800MHz antennas. A blanking cover is supplied for when an external whip is not required. A further version of GPSD is available that adds 2x2 MiMo antenna function for 2.4/5.8GHz WiFi.

The GPSD shark fin style design provides multiple antenna functions while remaining discreet and is suitable for public safety (overt/covert), industrial and transport applications where a cost effective, efficient and robust antenna is essential. Requiring only a single hole mounting, the GPSD reduces vehicle damage, installation time & cost and visual impact whilst protecting a vehicle's resale value.



GPSD-7-27-24-58 shown

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			Product Data
Part No		GPSD-7-27	GPSD-7-27-24-58
Electrical Data			
	Element 1	1562-1612	
Frequency Range (MHz)	Elements 2 & 3	698-960, 1710-2170, 2500-3800	
	Elements 4 & 5	- 2300-2500 & 4900-6000	
	Whip	Dependent on selected whip	
Operational Bands	Element 1	GPS/GNSS/Galileo/Beidou	
	Elements 2 & 3	4G/3G/2G	
	Elements 4 & 5	- 2.4GHz WLAN / Public Safety 4.9GHz / 5.8GHz Wi	
	Whip	Dependent on selected whip	
Peak gain: Isotropic*	Elements 2 & 3	2dBi (698-960MHz) 5dBi (1710-3800MHz)	
	Elements 3 & 4	- 4dBi (2.4GHz), 6dBi (5.8GHz)	
Isolation (with 5m (16') CS29	Cellular	>12dB	
	WiFi	> 20dB	
Typical Efficiency* w/o Cable Loss	Elements 2 & 3	> 50%	
Correlation Co-efficient	Elements 2 & 3	<0.2	
Polarisation		Vertical	
Pattern		Omni-directional	
mpedance		50Ω	
Max Input Power (W)		Internal elements 25W / main whip 60W	
GPS/GNSS Data			
Frequency Range (MHz)		1562-1612	
VSWR		<2:1 ± 4MHz	
Gain: LNA		26dB	
Polarisation		Right Hand Circular	
Operating Voltage		3-5V DC (fed via coax)	
Current		Typical <20mA	
Mechanical Data			
Dimensions (mm)	Total Height (excluding whip)	50 (2.2")	
	Length	170 (6.77")	
	Width	60 (2.4")	
Operating Temp (°C)		-40° / +80°C (-40° / 176°F)	
Vaterial		ASA, EPDM, Aluminium Alloy	
Colour		Black	
Weight (g)		240	260
ngress Protection		IP66	
Vounting Info			
Fixing		Panel Mount	
Hole Size (mm)		19 (3/4")	
Cable Data			
Cable Type - All Feeds		RG174 (UN ECE 118 Compliant)	
Dimensions (mm)	Diameter	2.8 (0.11")	
	Length	300 mm (12")	
Termination	Whip	FME plug	
	GPS/GNSS	FME socket	
	2 x 4G/3G/2G	2 x SMA plug	

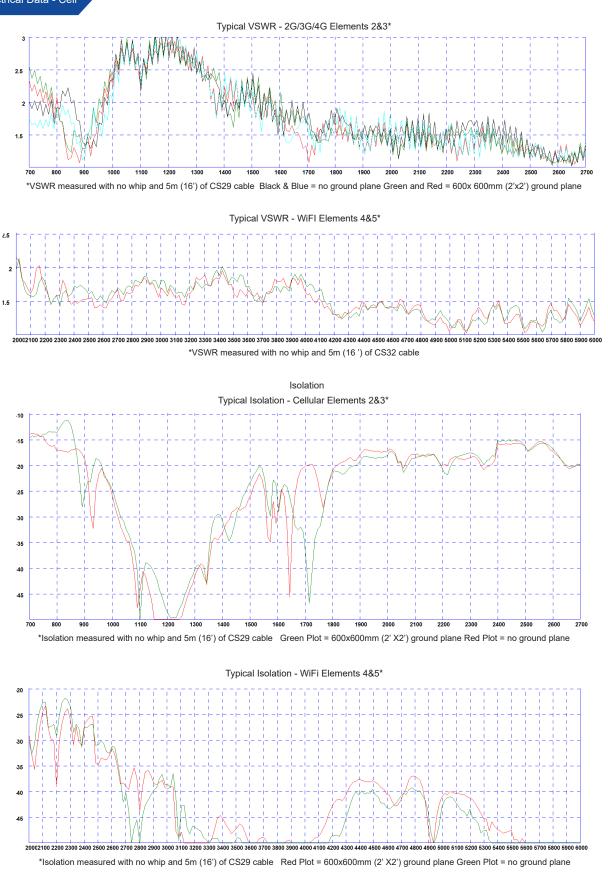
GPSD 17/05/2021 V3

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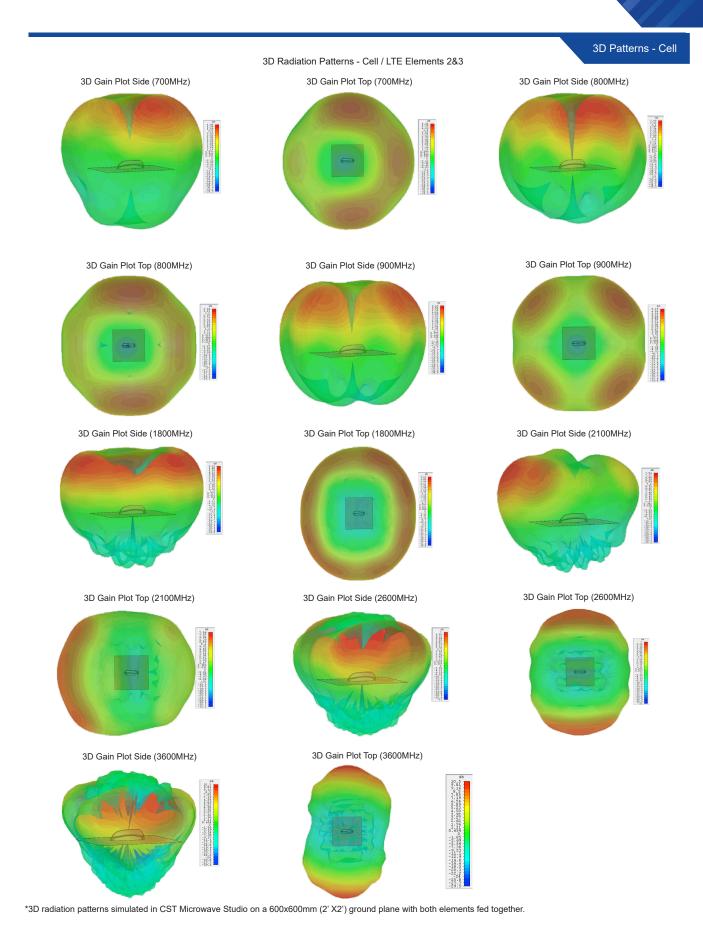
Electrical Data - Cell



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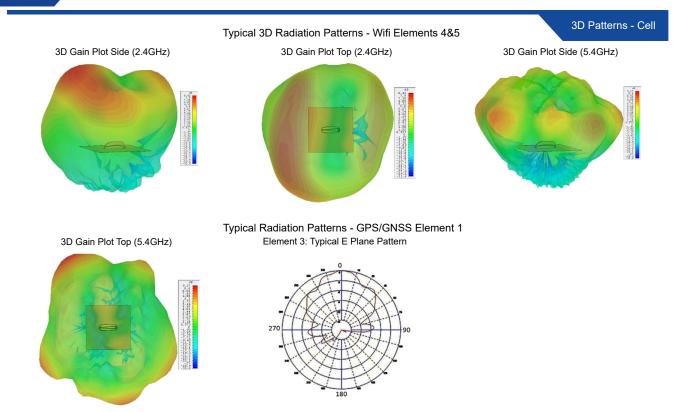
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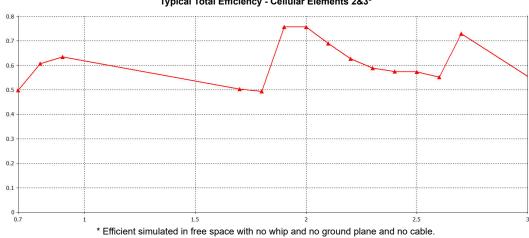
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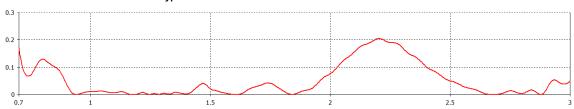


*3D radiation patterns simulated in CST Microwave Studio on a 600x600mm (2' X2') ground plane with both elements fed together.



Typical Total Efficiency Typical Total Efficiency - Cellular Elements 2&3*

Typical Correlation Co-efficient Typical Correlation Co-efficient- Cellular Elements 2&3*



*Correlation co-efficient simulated in free space with no whip, no additional cable and no ground plane Waiver: The data given above is indicative of the performance of the product/s under particular conditions and does not imply a guarantee of performance. These specifications are subject to change without notice.

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