

Sierra Wireless AirLink® Antenna: 6-in-1 Dome

AirLink® Antenna: 6-in-1 Dome

The 6-in-1 Dome has been tested and certified to operate with AirLink LTE routers and gateways.

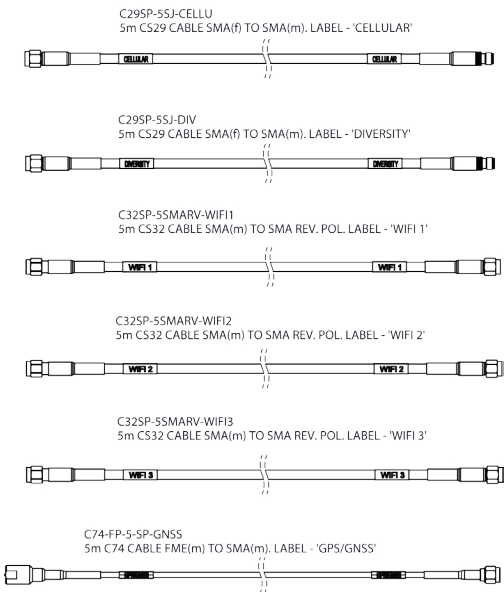
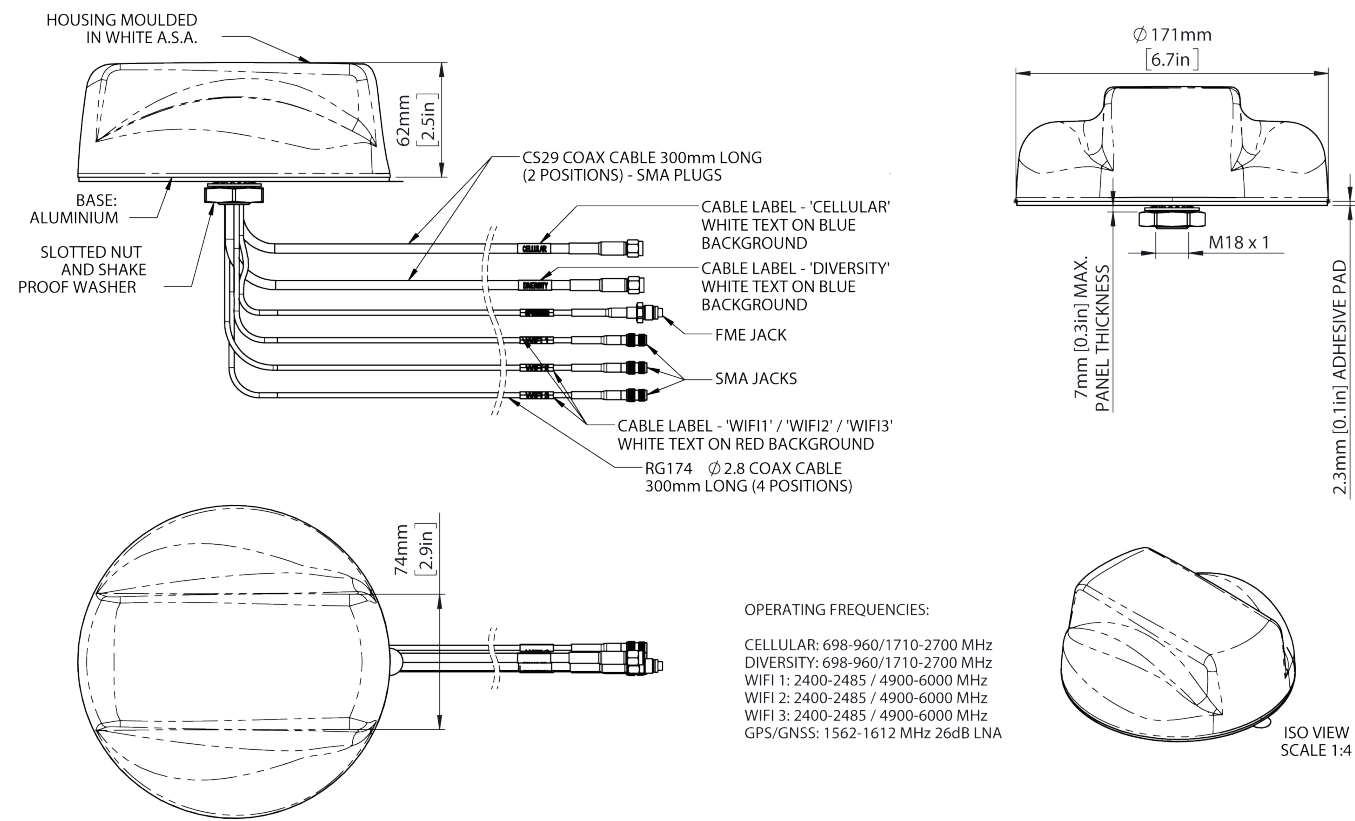
It has a low profile design that contains six isolated high performance antenna elements in a single housing for optimal coverage; two ultra-wideband elements spanning 698-2700MHz support MiMo/diversity at LTE frequencies; a high performance GNSS antenna with an integrated 26dB gain LNA, and three dualband 2.4/5GHz Wi-Fi elements that provide 3x3 MiMo Wi-Fi.

The antenna is ground plane independent, and maintains a high level of performance even when mounted on a non-metallic surface.

PART NO.		Specification	
		6001121	
ELECTRICAL DATA			
Frequency Range	Elements 1 & 2	698-960 / 1710-2700MHz	
	Elements 3,4 & 5	2.4/4.9-6GHz	
Operational Bands	Elements 1 & 2	2G/3G/4G LTE	
	Elements 3,4 & 5	2.4/5.0GHz Wi-Fi	
Peak gain: Isotropic	Elements 1 & 2	698-960MHz	2.3dBi
		1710-2700MHz	5dBi
	Elements 3,4 & 5	2.4/4.9-6.0GHz	2dBi
Isolation	Cellular	> 15dB	
Correlation Co-efficient	< 0.1		
Polarisation	Vertical		
Impedance	50Ω		
Max Input Power	25W		

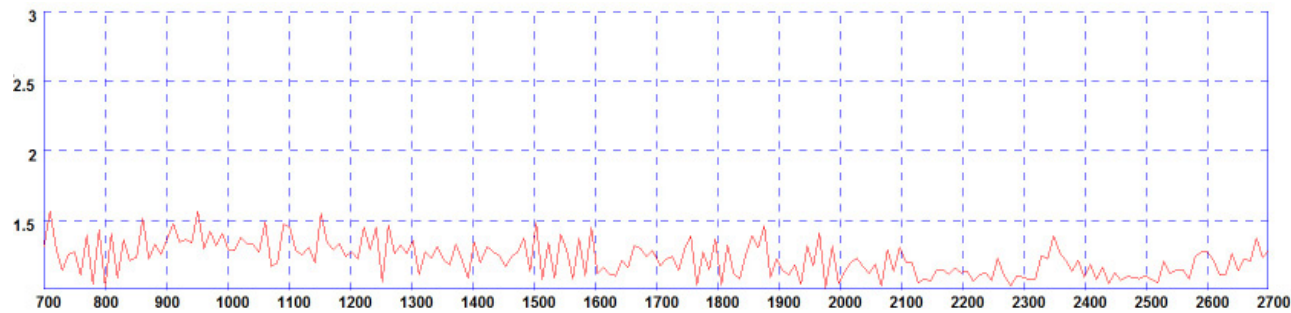
		Specification
GPS/GNSS DATA		
Frequency Range	Element 6	1562-1612MHz
VSWR		<2:1 ± 4MHz
Gain: LNA		26dB
Operating Voltage		3-5V DC
Approval		E11
Current		<20mA
MECHANICAL DATA		
Dimensions	Height	62mm (2.4")
	Diameter	176mm (6.7")
Operating Temp		-30° / +80°C (-22° / 176°F)
Material		ASA & Diecast Aluminium
Colour		White
Ingress Protection		IP66
Weight		1282g
MOUNTING DATA		
Mounting Type		Bolt Mount
Mounting Hole		19mm (3/4")
CABLE DATA		
Cell / LTE Cables	Type	CS29
	Length	5m (16ft)
	Termination	SMA Plug
GPS Cable	Type	CS29
	Length	5m (16ft)
	Termination	SMA Plug
Wi-Fi Cables	Type	CS32
	Length	5m (16ft)
	Termination	RP-SMA Plug

TECHNICAL DRAWING



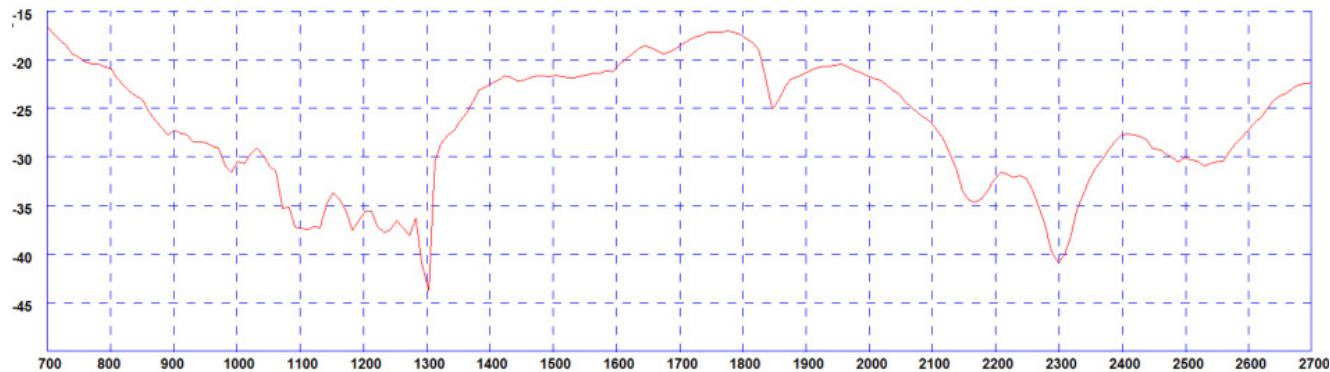
VSWR

Typical VSWR (Elements 1 & 2)*



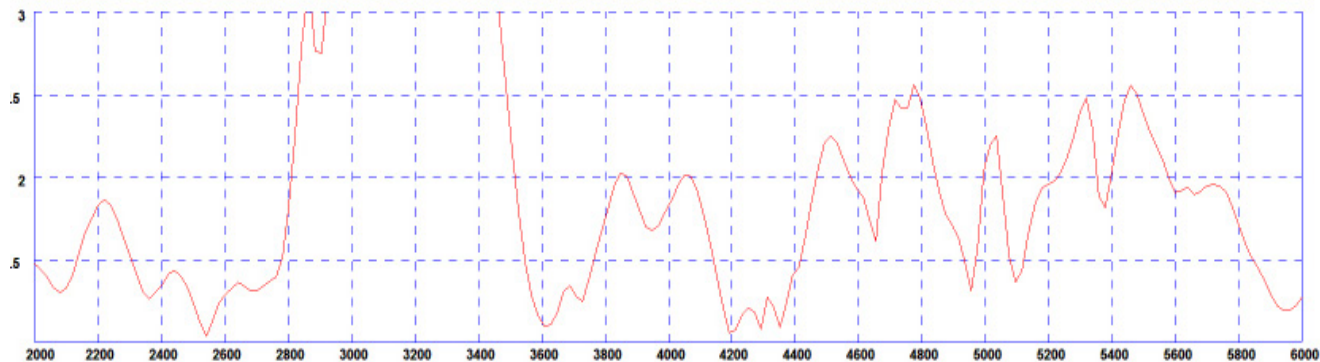
* VSWR measured with 5m (16') of cable.

Typical Isolation (elements 1 & 2)*



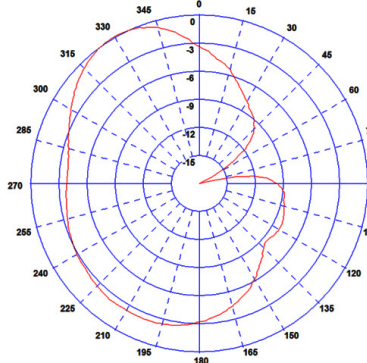
* Isolation measured without a groundplane or additional cable

Typical VSWR - (Elements 3, 4 & 5)

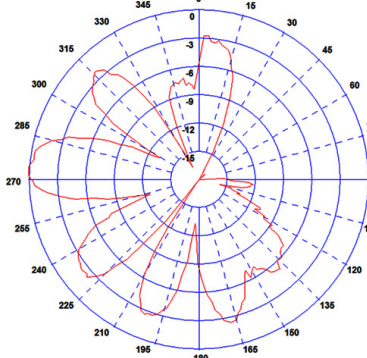


* VSWR measured without additional cable

Typical H-plane - Element 3 (2400MHz)

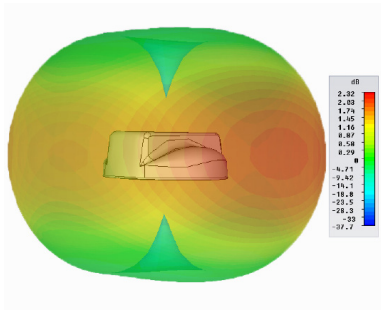


Typical H-plane - Element 3 (5400MHz)

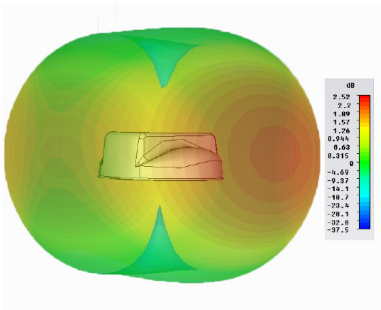


ELECTRICAL DATA

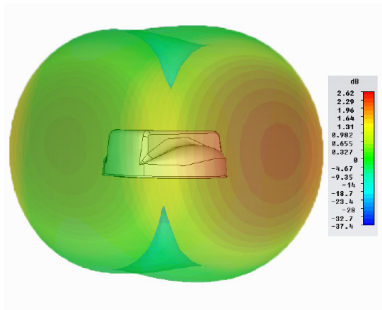
Typical 3D Pattern - Elements 1&2 700MHz



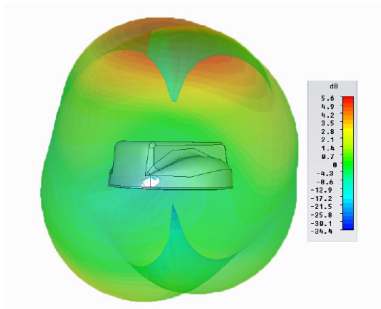
Typical 3D Pattern - Elements 1&2 800MHz



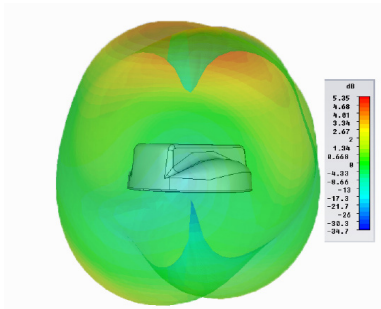
Typical 3D Pattern - Elements 1&2 900MHz



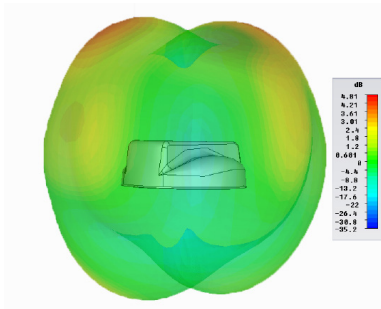
Typical 3D Pattern - Elements 1&2



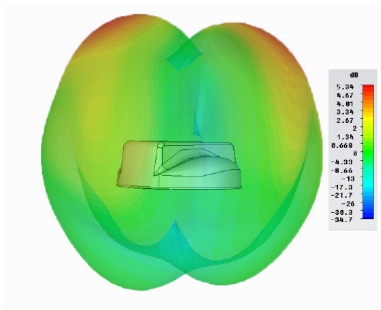
Typical 3D Pattern - Elements 1&2



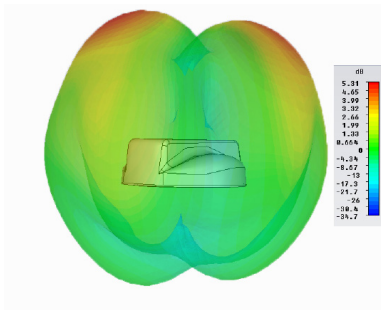
Typical 3D Pattern - Elements 1&2



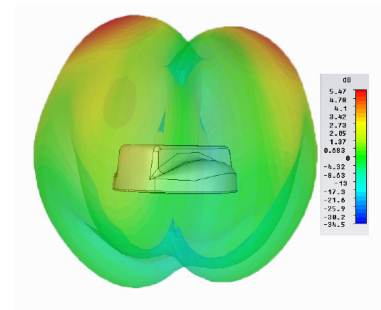
Typical 3D Pattern - Elements 1&2



Typical 3D Pattern - Elements 1&2



Typical 3D Pattern - Elements 1&2



N.B. All pattern and gain measurements taken on a 400 x 400mm (2' x 2') ground plane without additional cable.

About Sierra Wireless

Sierra Wireless is building the Internet of Things with intelligent wireless solutions that empower organizations to innovate in the connected world. We offer the industry's most comprehensive portfolio of 2G, 3G, and 4G embedded modules and gateways, seamlessly integrated with our secure cloud and connectivity services. OEMs and enterprises worldwide trust our innovative solutions to get their connected products and services to market faster.

For more information, visit www.sierrawireless.com.