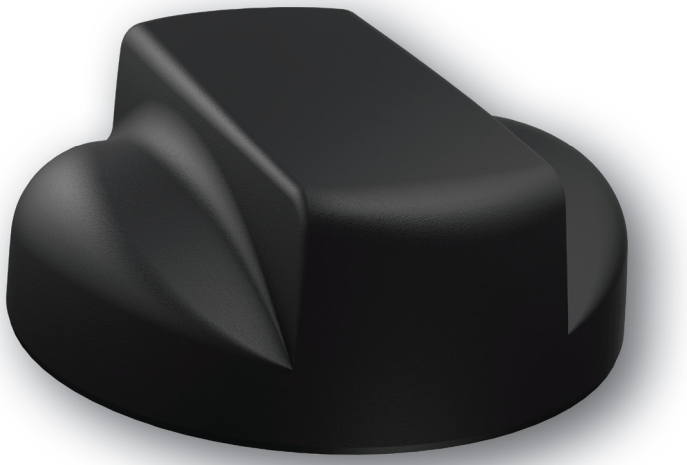
5 in 1 Dome

Low Profile Dome Antenna

The 5 in 1 Dome antenna is designed for use with IBR900 and IBR1100 Cradlepoint routers consists of two isolated high performance antenna elements covering 698-2700MHz offering 2x2 MiMo 2G/3G/4G LTE frequencies as well as 2x2 MiMo antenna function for 2.4/5GHz Wi-Fi and an active antenna for GPS/GLONASS/Galileo/BeiDou with 26dB gain LNA with high quality filtering offering un-paralleled positioning accuracy. The antenna does not require a metallic ground plane, and maintains a high level of performance even when mounted on a non-metallic surface.

This high-performance antenna offers multiple antenna functions while remaining discreet and is suitable for FirstNet (overt/covert), where a cost effective, efficient and robust antenna is essential. Requiring only a single hole mounting, the antenna reduces vehicle damage, installation time, cost and visual impact whilst protecting a vehicle's resale value.

The antenna kit contains a complete set of 5 extension cables; two 5m low loss double shielded cables terminating in SMA plugs for 2G/3G/4G LTE, two 5m ultra-low loss double shielded cables terminating in reverse polarity SMA plugs for Wi-Fi and a 5m RG58 cable terminating in an SMA plug for GPS.



Applications:

Public Bus

Ambulance

Police

Utility

Fleets / Trucks

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Product Brief / Cradlepoint CP-1011-1-PAN

Electrical Data

Frequency Range	Elements 1 & 2 Elements 3 & 4		698-960 / 1710-2700MHz 2.4 / 4.9-6GHz
Operational Bands	Elements 1 & 2 Elements 3 & 4		2G/3G/4G LTE Wi-Fi 2.4 / 5.0GHz
Peak Gain: Isotropic	Elements 1 & 2	698-960MHz 1710-2700MHz	2.3dBi 5dBi
	Elements 3 & 4	2.4/4.9-6.0GHz	2dBi
Isolation	Elements 1 & 2		>15dB
Correlation Co-efficient	Elements 1 & 2		<0.1
Polarisation			Vertical
Impedance			50Ω
Max Input Power			50W

Mechanical Data

Dimensions	Height Diameter	2.4" (62mm) 6.7" (176mm)
Operating Temperature		-30° / +80°C (-22°/ 176°F)
Material		ASA / Diecast Aluminium
Color		Black
Ingress Protection		IP66
Weight		1345g

GNSS Data

Frequency Range	1562-1612MHz
VSWR	<2:1 ± 4MHz
Gain: LNA	26dB
Operating Voltage	-5V DC
Type Approval	E11
Polarisation	<20mA

Cable Data

	CELL	Wi-Fi	GPS
Type	Double Shielded RG58	Solid Core Double Shielded 5mm	Double Shielded RG58 C/U
Length	16ft (5m)	16ft (5m)	16ft (5m)
Termination	SMA Plug	SMA Reverese Polarity Plug	SMA Plug

Mounting Data

Mounting Type	Panel Mount
Max panel thickness	0.27" (7mm)
Mounting hole	3/4" (19mm)

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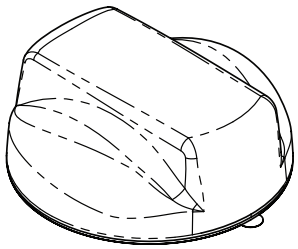
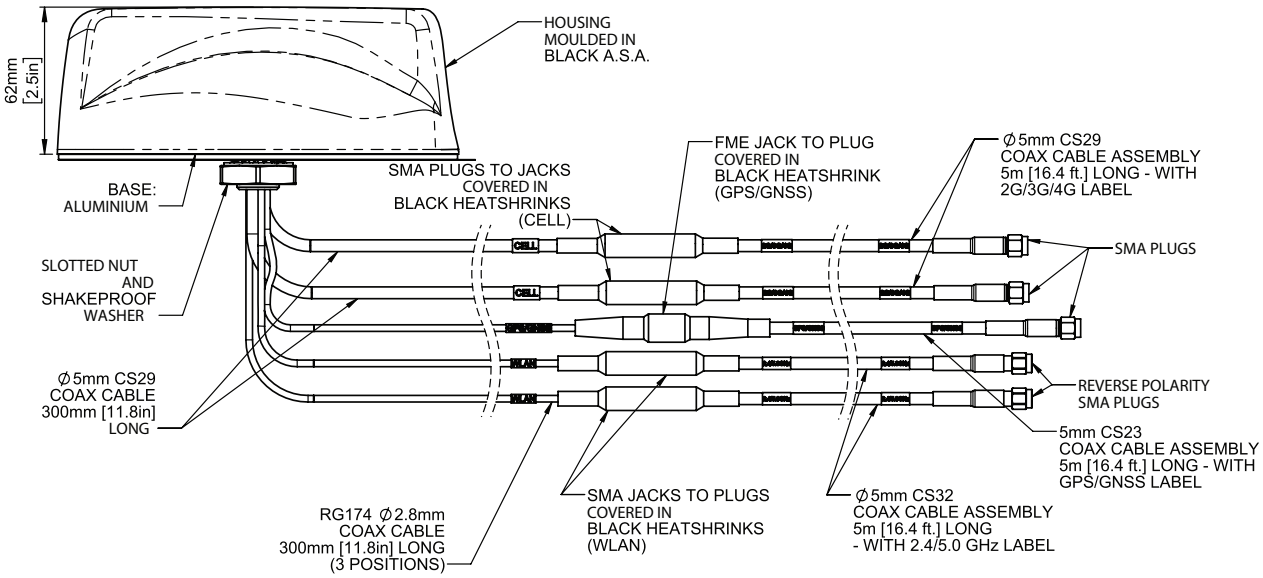
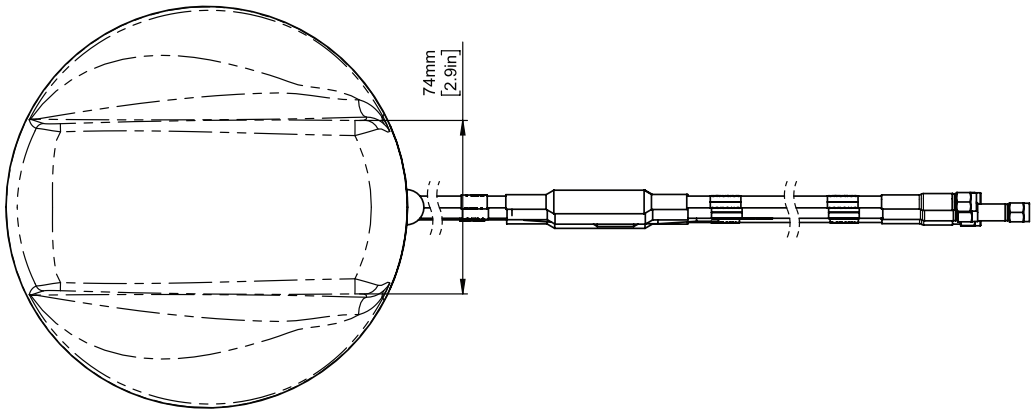
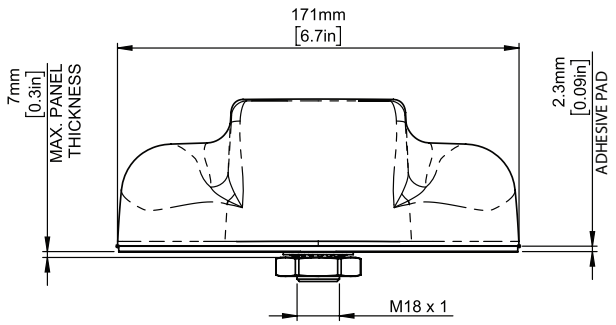
TECHNICAL DRAWING









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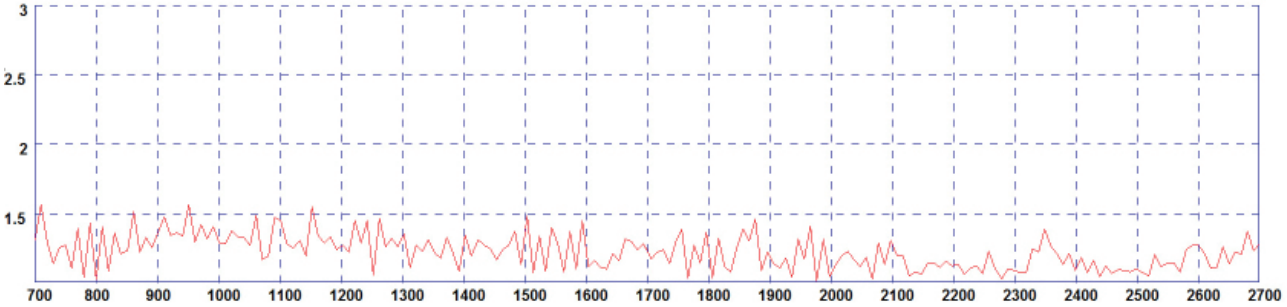
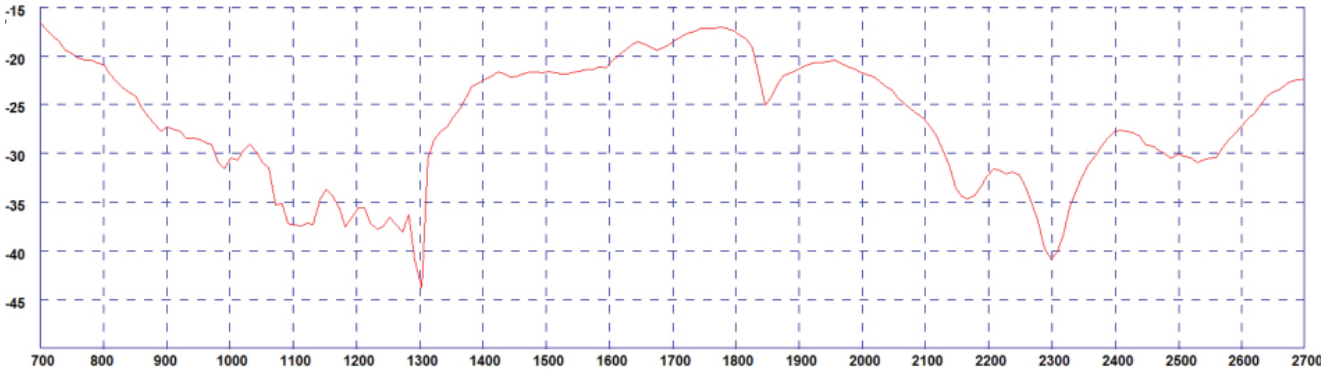
ELECTRICAL DATA

Typical VSWR - 2G/3G/4G LTE Elements 1 & 2*



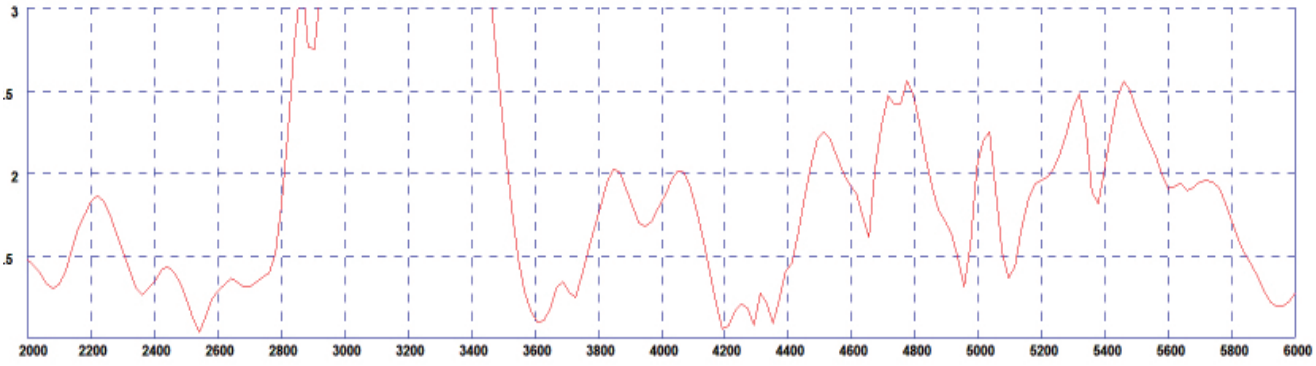
* VSWR measured with 5m (16') of cable.

Typical Isolation - 2G/3G/4G LTE Elements 1 & 2*



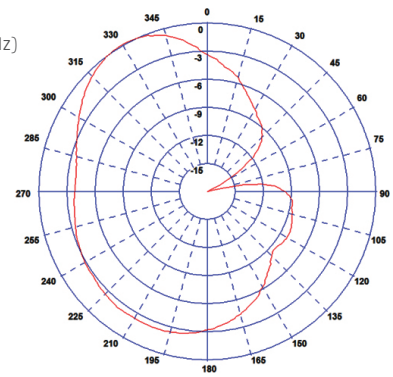
* Isolation measured without a groundplane or additional cable

Typical VSWR - Wi-Fi Elements 3 & 4*

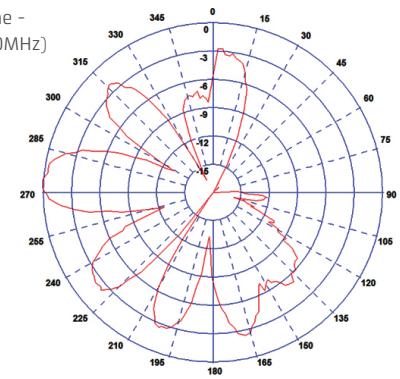


* VSWR measured without additional cable

Typical H-plane - Element 3 (2400MHz)



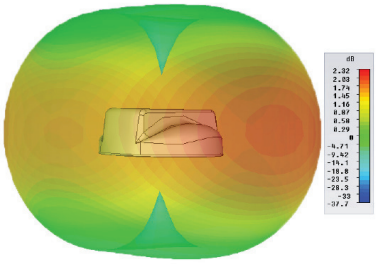
Typical H-plane - Element 3 (5400MHz)



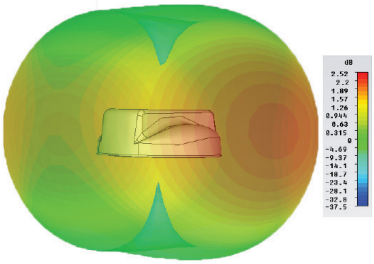
RADIATION PATTERNS

3D RADIATION PATTERNS - 2G/3G/4G LTE ELEMENTS 1 & 2*

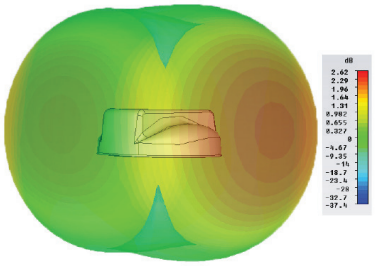
2G/3G/4G LTE - Elements 1 & 2 (700MHz)



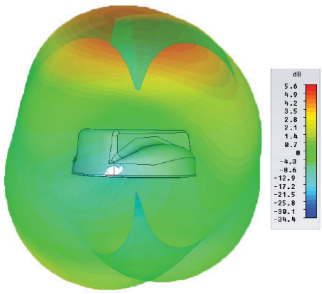
2G/3G/4G LTE - Elements 1 & 2 (800MHz)



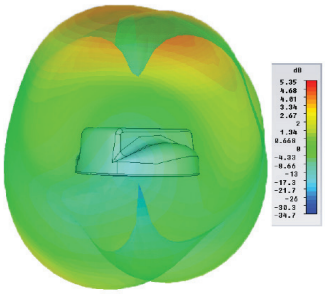
2G/3G/4G LTE - Elements 1 & 2 (900MHz)



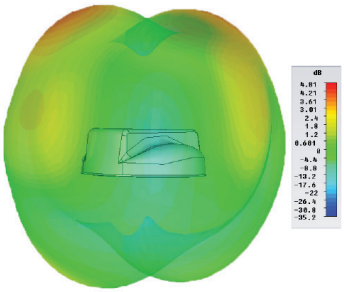
2G/3G/4G LTE - Elements 1 & 2 (1800MHz)



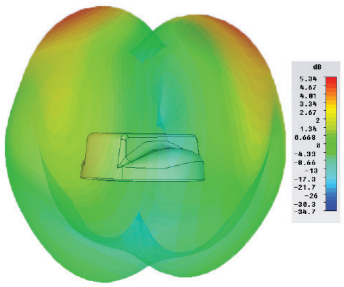
2G/3G/4G LTE - Elements 1 & 2 (1900MHz)



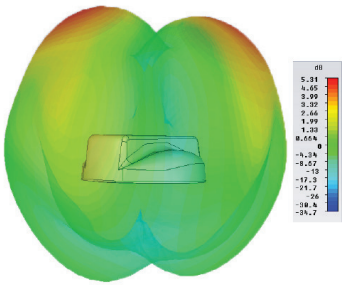
2G/3G/4G LTE - Elements 1 & 2 (2100MHz)



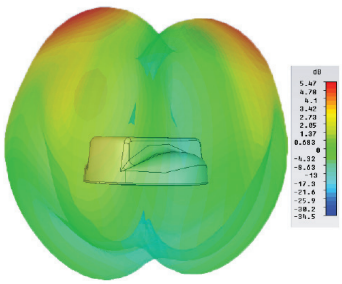
2G/3G/4G LTE - Elements 1 & 2 (2400MHz)



2G/3G/4G LTE - Elements 1 & 2 (2500MHz)



2G/3G/4G LTE - Elements 1 & 2 (2600MHz)



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

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