

IN2215

Low Profile MiMo Antenna

PANORAMA ANTENNAS

11/04/2017 v.1

Low Profile MiMo Antenna



Panel mount

2 x 2 Cellular /LTE MiMo

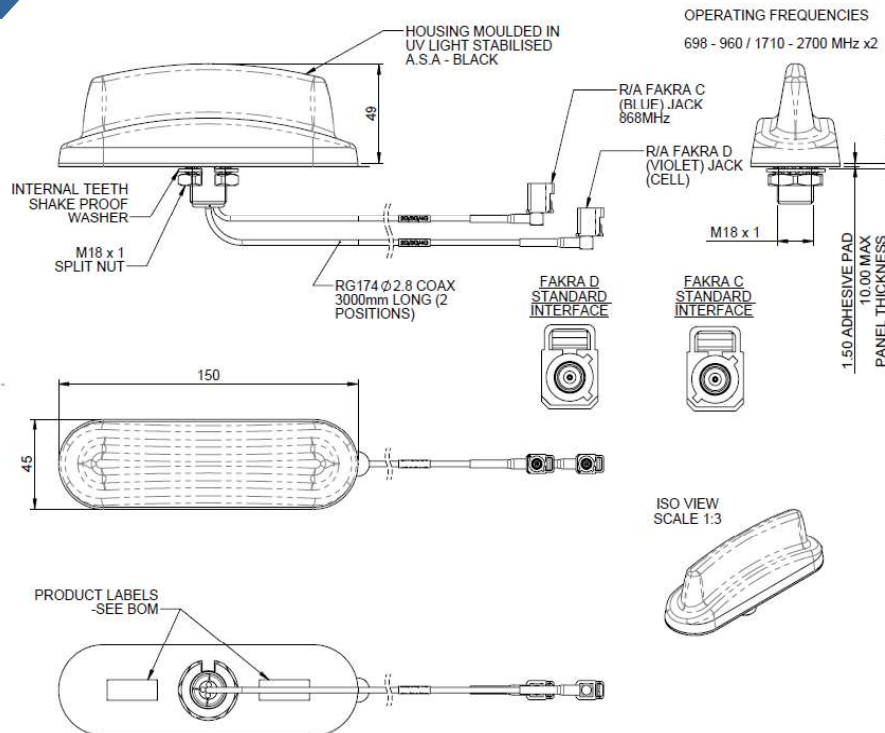
Robust and cost effective solution for M2M and IOT applications

The IN2215 has been designed to provide MiMo Cellular /LTE antenna functionality for IOT and M2M applications. The compact, robust low-profile housing is weatherproof and contains two antenna elements with effective isolation and correlation covering all current global cellular and LTE bands in freq. range 698-960/1710-3800MHz. One of these elements can be used for Cellular and the other for 868MHz if desired.

The antenna can be fitted on a non-conductive panel if required* and offers easy, quick, secure and weatherproof installation with the single hole mounting bush and acrylic adhesive sealing pad. Supplied with integrated 3m (10') cables and 1x FAKRA D Jack (cellular) and 1x FAKRA C Jack (868MHz) the IN2215 is configured for applications requiring these connectors.

* Performance may change depending on mounting position/surface.

Technical Drawing



Product Data

Part No.

IN2215

Electrical Data

Frequency Range	Elements 1 & 2	698-960 / 1710-3800
Peak Gain: Isotropic †	Element 1 & 2: 698-960MHz	1.5dBi
	Elements 1 & 2: 1710-2170MHz	4.5dBi
	Elements 1 & 2: 2500-3800MHz	5dBi
Pattern		Omni-directional
Nominal Impedance		50Ω
Max input power (W)		20

Mechanical Data

Dimensions (mm)	Height	49 (1.92")
	Length	150 (5.90")
	Width	45 (1.77")
Operating Temp (°C)		-30° / +70°C (-22° / 158°F)
Material		UV Stable ASA Plastic
Colour		Black
Typical Weight (g)		337

Mounting Data

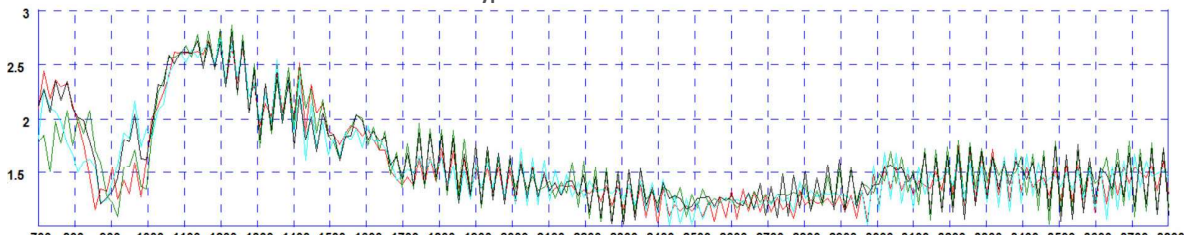
Fixing	18mm (3/4") mounting bush and acrylic adhesive pad
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Cable Data

Element 1:	Cable Type	RG174
	Diameter (mm)	2.8 (0.1")
	Length (m)	3 (9.8')
	Termination	FAKRA D Jack
Element 2:	Cable Type	RG174
	Diameter (mm)	2.8 (0.1")
	Length (m)	3 (9.8')
	Termination	FAKRA C Jack

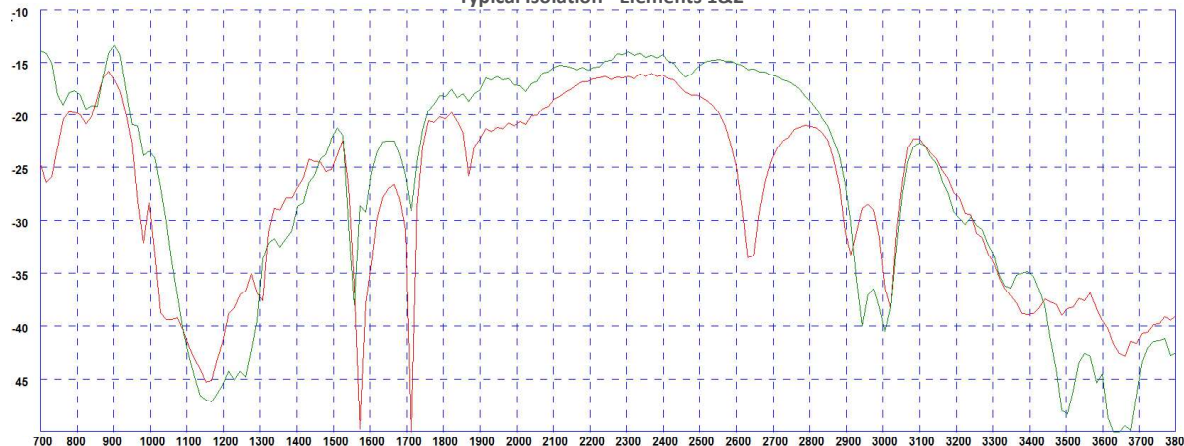
† Peak gain simulated off a groundplane and does not include cable attenuation

Typical VSWR - Elements 1&2*



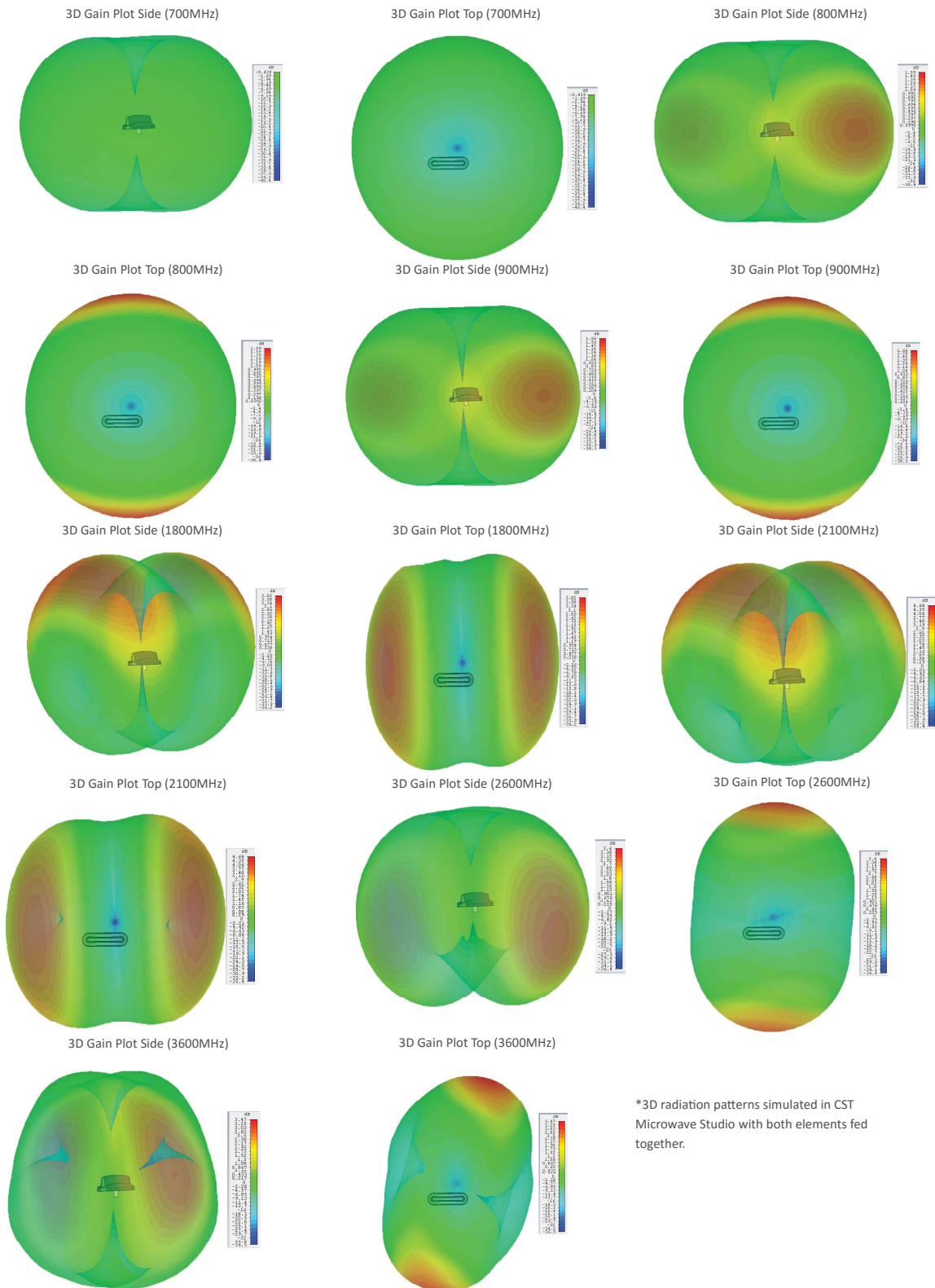
* VSWR measured with 3m (10') of RG174 cable Green and Red Plots = Elements 1&2 in free space Black and Blue plots = Elements 1&2 on a 400x400mm ground plane

Typical Isolation - Elements 1&2*



*Isolation measured with 3m (10') of RG174 cable Red Plot = mounted on a 400x 400mm (1' 4" x 1'4") ground plane Green Plot = free space

Typical 3D Radiation Patterns - Cell / LTE Elements 1&2



*3D radiation patterns simulated in CST Microwave Studio with both elements fed together.

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