

Ordering Information

SKU	Description	UPC
100824	Patch Antenna	0616469146656

Description

A high-performance L-Band (Iridium) patch antenna with a gain of ~3.1dBi and a female SMA connector. The antenna is designed to receive both right hand circularly polarized (RHCP) and linear signal types.



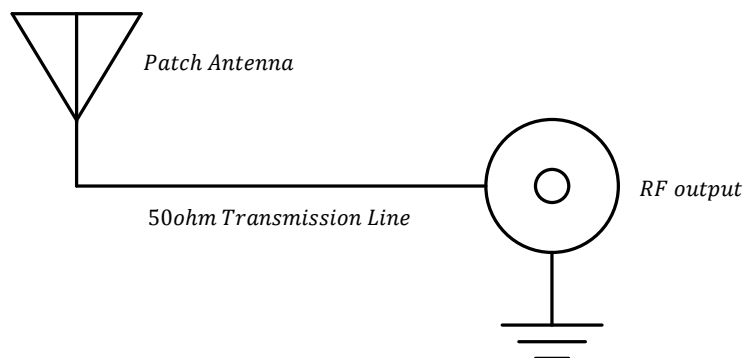
Features

- +3.1dBi of gain at 1614MHz
- 81MHz 3dB bandwidth
- 50Ω input impedance
- Low profile
- Lightweight

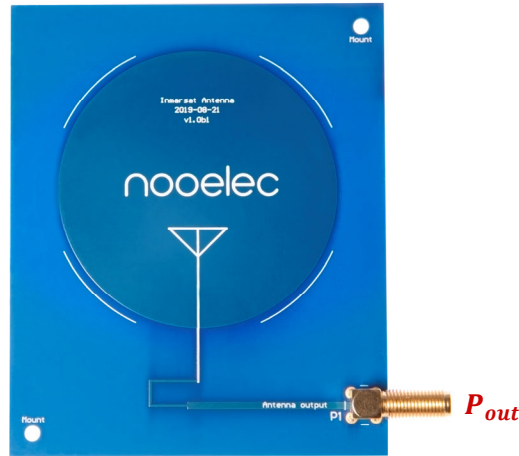
Applications

- Satellite Reception
- Iridium reception
- Software defined radio

Simplified Schematic



Pin Configuration and Functions



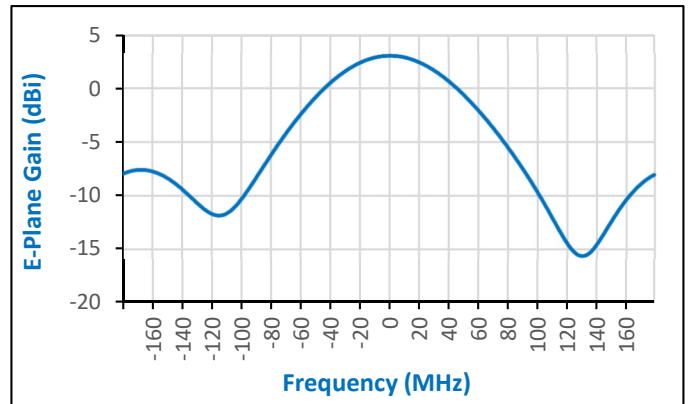
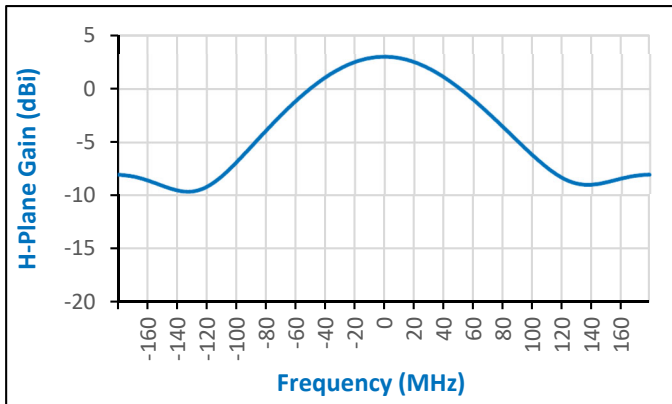
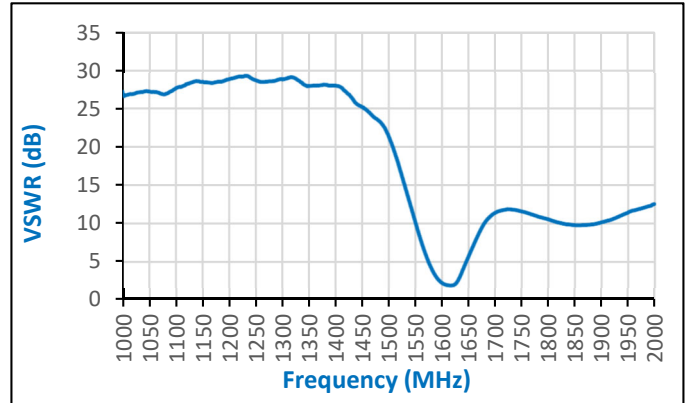
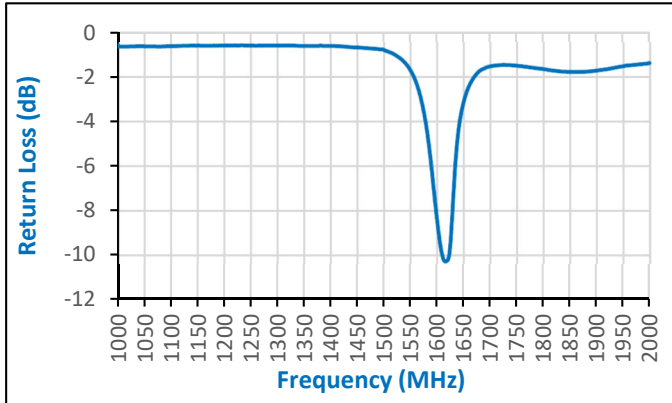
Pin	Function	Type	Description
<i>P_{out}</i>	Antenna Output	Output	The output SMA port of the Antenna

Electrical Specifications

Test Conditions unless otherwise specified: 50 Ohm system.

Parameter	Symbol	Min	Typical	Max	Unit
Center Frequency	f_o	1612	1614	1616	MHz
Frequency Range	$f_L - f_H$	1595	-	1631	MHz
3dB Return Loss Bandwidth	BW	-	81	-	MHz
10dB Return Loss Bandwidth	BW	-	13	-	MHz
Gain at f_o	G	-	3.1	-	dBi
Input Return Loss at f_o	S11	-25	-11	-8	dB
Voltage Standing Wave Ratio at f_o	VSWR	1.12	1.78	2.3	Ratio
H-Plane 3dB Beamwidth	H-BW	-	101	-	Degree
E-Plane 3dB Beamwidth	E-BW	-	88	-	Degree
Side-Lobe Level	SSL	-	-10.6	-	dB
Axial Ratio	AR	-	1.25	-	Ratio

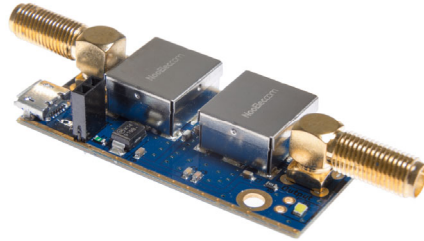
Electrical Characteristics Plots (1000MHz to 2000MHz)



Physical Specifications

Parameter	Value	Unit
Length	82 (3.23)	Millimeter (Inch)
Width	80 (3.15)	Millimeter (Inch)
Height	15 (0.59)	Millimeter (Inch)
Weight	25 (0.06)	Gram (Pound)

Accessories



Male SMA to Male SMA Pigtail Cable	SAWbird+ IR Barebones	SAWbird+ IR
SKU: 100570	SKU: 100789	SKU: 100790