

### Ordering Information

SKU	Description	UPC
100817	Patch Antenna	0616469146601

### Description

A high-performance L-Band (Inmarsat AERO/STD-C) patch antenna with a gain of ~3.5dBi and a female SMA connector. The antenna is designed to receive both right hand circularly polarized (RHCP) and linear signal types.



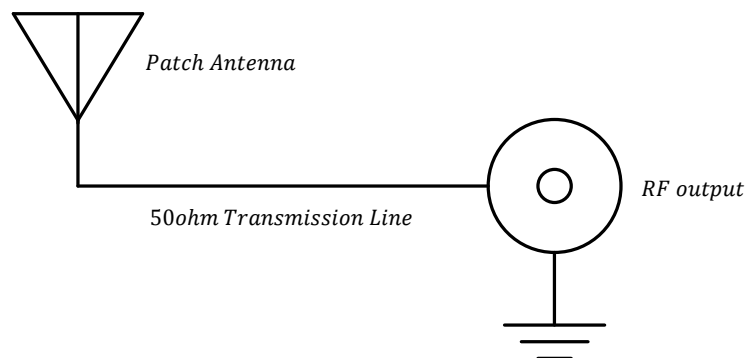
### Features

- +3.5dBi of gain at 1550MHz
- 66MHz 3dB bandwidth
- 50Ω input impedance
- Low profile
- Lightweight

### Applications

- Satellite Reception
- Inmarsat (AERO/STD-C)
- Software defined radio

### Simplified Schematic



## Pin Configuration and Functions



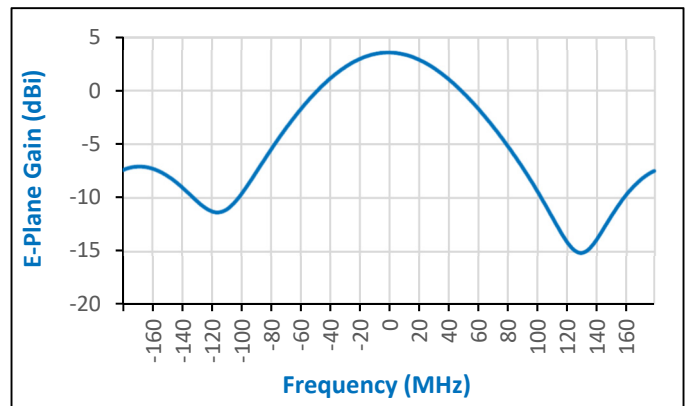
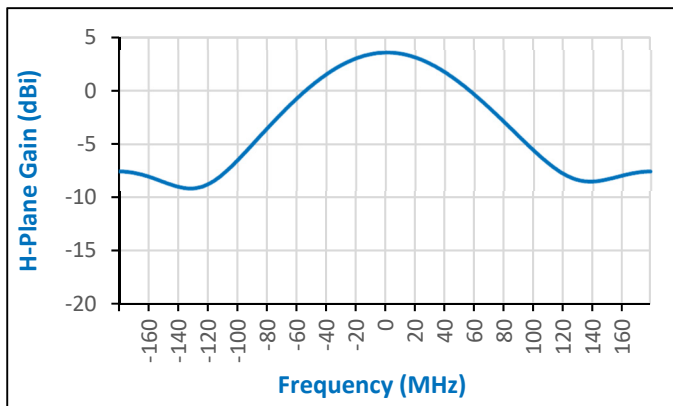
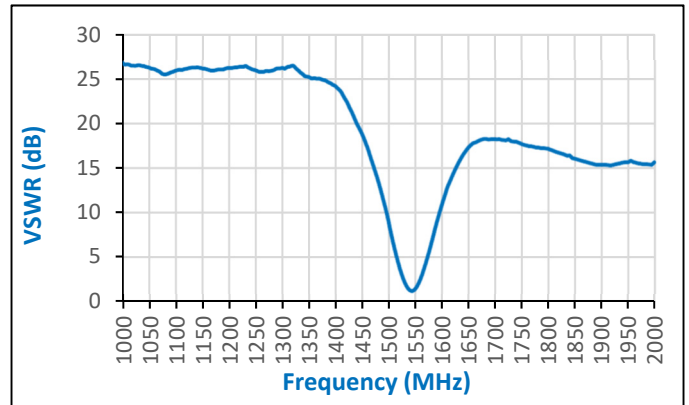
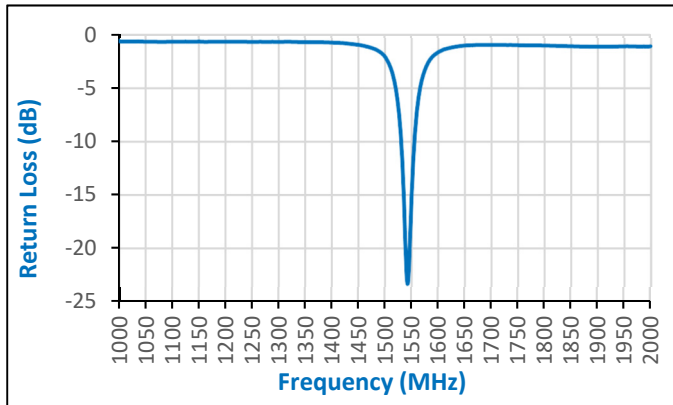
Pin	Function	Type	Description
<i>P<sub>out</sub></i>	Antenna Output	Output	The output SMA port of the Antenna

## Electrical Specifications

Test Conditions unless otherwise specified: 50 Ohm system.

Parameter	Symbol	Min	Typical	Max	Unit
<b>Center Frequency</b>	$f_0$	1546	1550	1554	MHz
<b>Frequency Range</b>	$f_L - f_H$	1532	-	1557	MHz
<b>3dB Return Loss Bandwidth</b>	$BW$	-	66	-	MHz
<b>10dB Return Loss Bandwidth</b>	$BW$	-	25	-	MHz
<b>Gain at <math>f_0</math></b>	G	-	3.5	-	dBi
<b>Input Return Loss at <math>f_0</math></b>	S11	-44	-25	-12	dB
<b>Voltage Standing Wave Ratio at <math>f_0</math></b>	VSWR	1.01	1.08	1.25	Ratio
<b>H-Plane 3dB Beamwidth</b>	H-BW	-	95	-	Degree
<b>E-Plane 3dB Beamwidth</b>	E-BW	-	85	-	Degree
<b>Side-Lobe Level</b>	SSL	-	-9	-	dB
<b>Axial Ratio</b>	AR	-	1.3	-	Ratio

## Electrical Characteristics Plots (1000MHz to 2000MHz)



## Physical Specifications

Parameter	Value	Unit
<b>Length</b>	95 (3.74)	Millimeter (Inch)
<b>Width</b>	92 (3.62)	Millimeter (Inch)
<b>Height</b>	10 (0.39)	Millimeter (Inch)
<b>Weight</b>	31 (0.07)	Gram (Pound)

### Accessories



Male SMA to Male SMA Pigtail Cable	SAWbird+ iO Barebones	SAWbird+ iO
SKU: 100570	SKU: 100787	SKU: 100788