

### Series: GNSS Active Antenna

**Description**: GNSS Patch Antenna, 30dB LNA, N-Male connector **PART NUMBER: GNSSDM30NM** 





#### **Features:**

- GNSS RHCP active antenna
- Beidou, GPS, Glonass
- LNA gain 30dBi
- 2pcs integrated band pass filters
- Module stage line-up:
  - Ant-Fil1-LNA1-Fil2-LNA2
- RoHS compliant

## **Applications:**

- · Base station timing antenna
- Navigation
- Tracking
- Location Based Services (LBS)

All dimensions are in mm / inches

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#### **ELECTRICAL SPECIFICATIONS**

Frequency	1561.098±2.046/ 1575.42±1.023/	MHz
	1602.5625±4	
Nominal Impedance	50	Ω
VSWR	<2:1	
Gain (Radiating element)	1	$dBic\pm 1\ dB$
Gain (LNA gain)	30	$dB \pm 2 \ dB$
Polarization	RHCP	
Out of Band Rejection		
698 MHz	>70	dB
960MHz	>65	dB
1710MHz	>60	dB
2170MHz	>65	dB
2400MHz	>65	dB
2700MHz	>65	dB
Noise Figure	<2.4	dB
Operating Voltage	3.3-5	Vdc±0.5V
Current Consumption	<15	mA

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#### **MECHANICAL SPECIFICATIONS**

Weight	127g
Antenna Color / Material	Gray
Connector type	N-Male

Operating Temperature Ingress Protection RoHS Compliant -40~85° C IP67 Yes

#### **OTHER SPECIFICATIONS**

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#### **MECHANICAL DRAWING**





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#### **TEST SETUP**

VSWR is tested in free space.

Radiation Element is test on 70X70mm ground plane.

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#### CHARTS

# VSWR



# LNA Gain and out-of-band rejection



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RoHS



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CHARTS

## Radiation Pattern (70mm x 70mm ground plane ) GPS & Galileo



# Radiation Pattern (70mm x 70mm ground plane ) GLONASS



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#### CHARTS

# Radiation Pattern (70mm x 70mm ground plane ) BeiDou



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#### PACKAGING

Each antenna packed in a plastic bag.

40 bags of antennas (total 40 antennas, TBD) packed in a cardboard box

1 label on each box with quantity, part number and date code.

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