

Product Brief



ANT-5GMWS1-SMA Sub-6 Midband and CBRS 5G Antenna

The ANT-5GMWS1-SMA antenna is a dipole, blade-style antenna for 5G New Radio midband applications. With excellent performance from 3300 MHz to 5000 MHz the 5GMWS1 supports CBRS private cellular networking (3550 MHz to 3700 MHz), Public Safety (4940 MHz to 4990 MHz), and a growing number of 5G midband solutions.

The hinged design allows for the antenna to be positioned for optimum performance and reduces the potential for damage from impact compared to a fixed blade design. The antenna attaches with an SMA plug (male pin) connector.



Features

- Performance at 3.55 GHz to 3.7 GHz (CBRS)
 - VSWR: ≤ 1.3
 - Peak Gain: 5.9 dBi
 - Efficiency: 76%
- Performance at 4.94 GHz to 4.99 GHz
 - VSWR: ≤ 3.4
 - Peak Gain: 2.3 dBi
 - Efficiency: 50%
- Hinged design with detents for straight, 45 degree and 90 degree positioning
- SMA plug (male pin)

Applications

- 5G NR midband applications
- Private cellular networks
 - Citizens Broadband Radio Service (CBRS)
- Public Safety networks
- 5G NR bands 22, 42, 43, 48, 49, 52
- C-Band applications (3700 MHz to 4200 MHz)

Ordering Information

Part Number	Description
ANT-5GMWS1-SMA	5G midband blade antenna with SMA plug (male pin)

Available from Linx Technologies and select distributors and representatives.

Electrical Specifications

ANT-5GMWP1-SMA	CBRS	C-Band	Public Safety
Frequency Range	3.55 GHz to 3.7 GHz	3.7 GHz to 4.2 GHz	4.94 GHz to 4.99 GHz
VSWR (max)	1.3	3.3	3.4
Peak Gain (dBi)	5.9	5.4	2.3
Average Gain (dBi)	-1.3	-2.4	-3.2
Efficiency (%)	76	63	50
Polarization	Linear		
Radiation	Omnidirectional		
Max Power	5 W		
Wavelength	1/2-wave		
Electrical Type	Dipole		
Impedance	50 Ω		
Connection	SMA plug (male pin)		
Operating Temperature Range	-20 °C to +65 °C		
Weight	25.6 g (0.90 oz)		
Dimensions	Length: 208.6 mm (8.21 in)		

Electrical specifications and plots measured with the antenna in a straight orientation.

VSWR

Figure 1 provides the voltage standing wave ratio (VSWR) across the antenna bandwidth. VSWR describes the power reflected from the antenna back to the radio. A lower VSWR value indicates better antenna performance at a given frequency. Reflected power is also shown on the right-side vertical axis as a gauge of the percentage of transmitter power reflected back from the antenna.

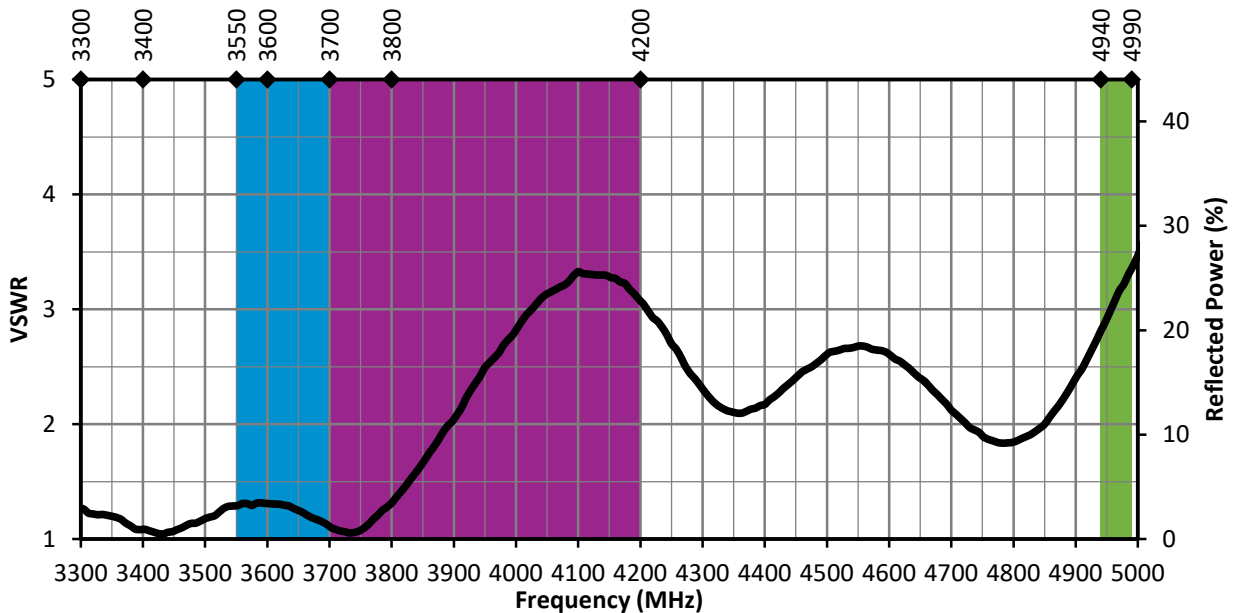


Figure 1. ANT-5GMWS1-SMA VSWR

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