

ROSA-600/71-3-SNF-DC *Wideband 5G/LTE, WiFi-6E, Radome Omni*

The RfMax ROSA-600/71 Antenna is a high-performance, multi-band solution optimized for the latest 5G and Wi-Fi 6E applications. Covering a broad frequency range from 617 MHz to 7125 MHz, this antenna is designed to deliver seamless connectivity for both 4G/5G FR1 and Wi-Fi 6E technologies, supporting critical wireless operations in today's fast-evolving landscape. With dual-band Wi-Fi capability and an omnidirectional radiation pattern, the ROSA-600/71 ensures consistent signal coverage across multiple bands, making it ideal for robust, high-demand network environments where reliable data transmission is key.

- Wideband Coverage: 617-960/1450-7125 MHz
- Covers WiFi-6E, 4G/5G-FR1
- Includes Band 71 & CBRS Bands 42, 48
- DC Grounded
- Includes Mounting Bracket
- 72-Hour Salt Spray Rating



WiFi



5G

The ROSA-600/71 showcases versatility and impressive band support, including Band 71 (617-698 MHz) for extended rural LTE coverage and CBRS Bands 42 and 48 (3400-3700 MHz) to bolster private LTE networks. These capabilities enhance network flexibility, allowing operators to leverage spectrum assets across a wide frequency range to meet the unique demands of 5G and Wi-Fi 6E connectivity. With an average peak gain of 2.5 dBi in the lower range (617-960 MHz), 4.0 dBi in the midrange (1450-4200 MHz), and 4.3 dBi in the upper range (4400-7125 MHz), this antenna offers optimal performance tailored to a variety of bandwidth needs.

Engineered for durability in diverse environments, the ROSA-600/71 features a rugged N-female connector with a 720-hour salt spray rating, ensuring long-lasting reliability even in harsh outdoor conditions. The compact size—measuring 2.45" in diameter and 8.64" in height—makes it easy to install on Ø1"-2.12" (25.4-54 mm) poles using the included mounting bracket, which is also rated for 720-hour salt spray exposure. DC grounding enhances protection from electrical surges, making this antenna a robust, dependable choice for critical infrastructure and high-performance applications in the 5G and Wi-Fi 6E markets.

ELECTRICAL DATA

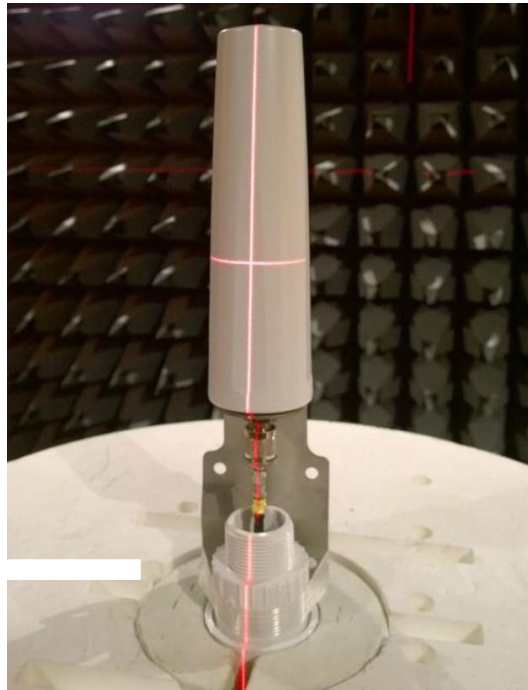
Antenna Type	Nominal Impedance	Polarization	Radiation Pattern	Power Rating	DC Groud	
Dipole	50ohm	Vertical	Omni	10W	Yes	
Frequency (MHz)	617-960	1450-2700	3300-4200	4400-5000	5150-5925	6000-7125
VSWR	2:1	2:1	2:1	2:1	2:1	2:1
Average Gain (dBi)	2.2	3	5	4.1	3.3	4.3
Average Efficiency (%)	76	77	76	65	60	59
HPBW Vertical Plane (°)	62	37	30	25	50	35

MOUNTING DATA

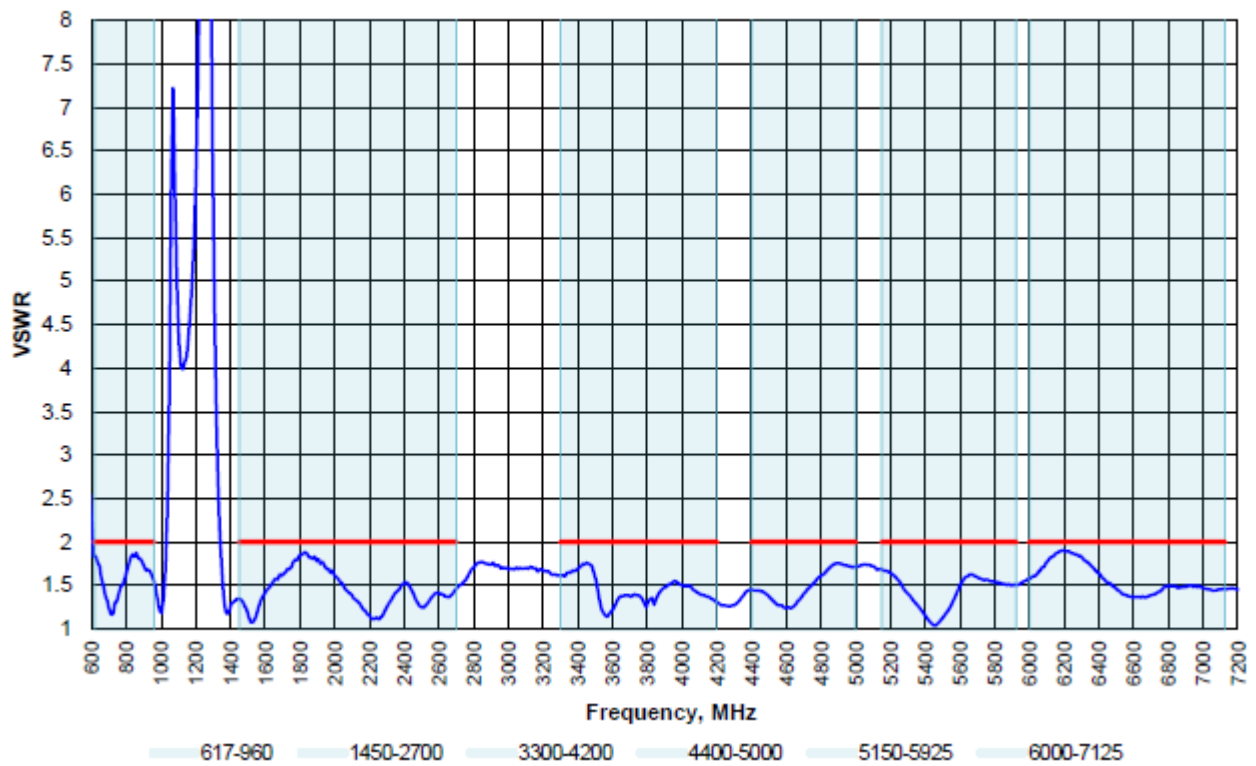
Color	White
Mounting Type	Direct N-Female
Mounting Bracket	RMNT-1003 Included
Dimensions (Diameter x Height)	62.2 x 219 mm (2.45 x 8.64 inches)
Radome Material	PET+PC, UV Rated
Weight	620 grms (1.37 lbs)

ENVIRONMENTAL DATA

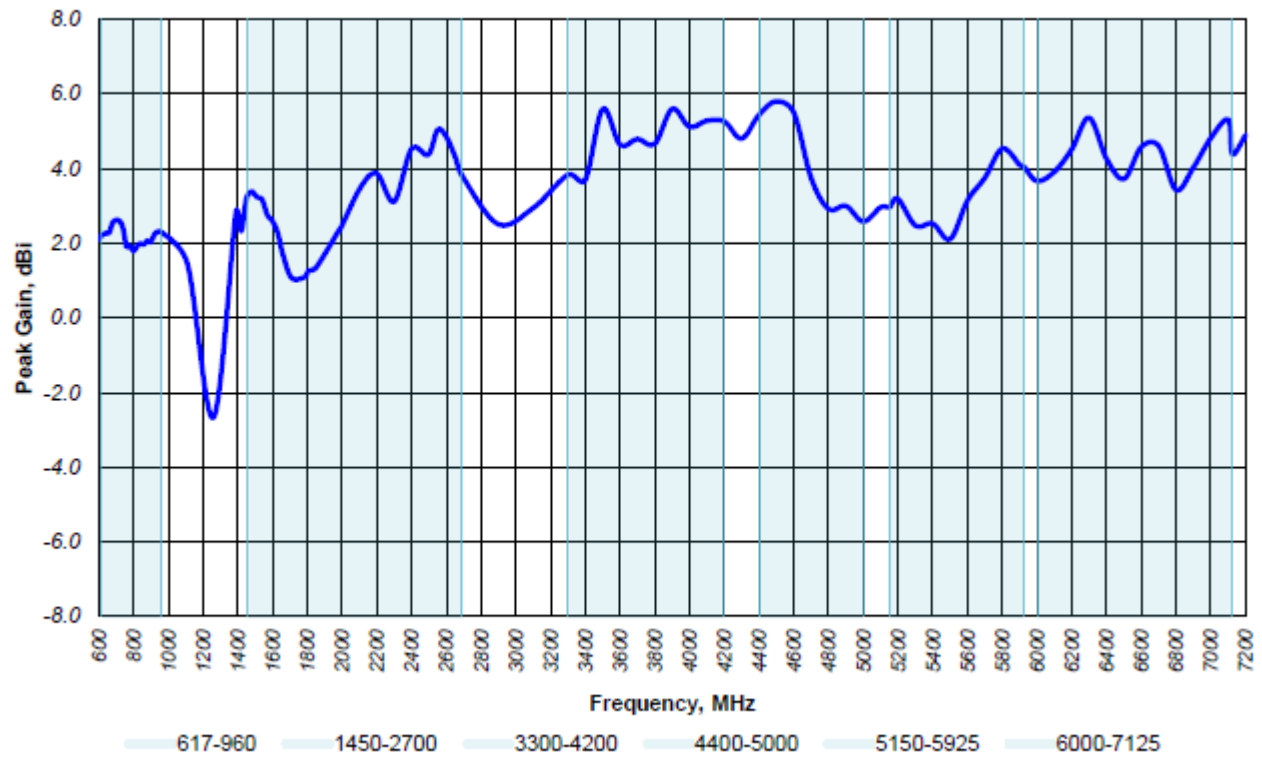
Operating Temperature (Celsius)	-40° to + 80°
Storage Temperature (Celsius)	-40° to + 80°
ROHS Compliant	Yes
Ingress Protection	IP67



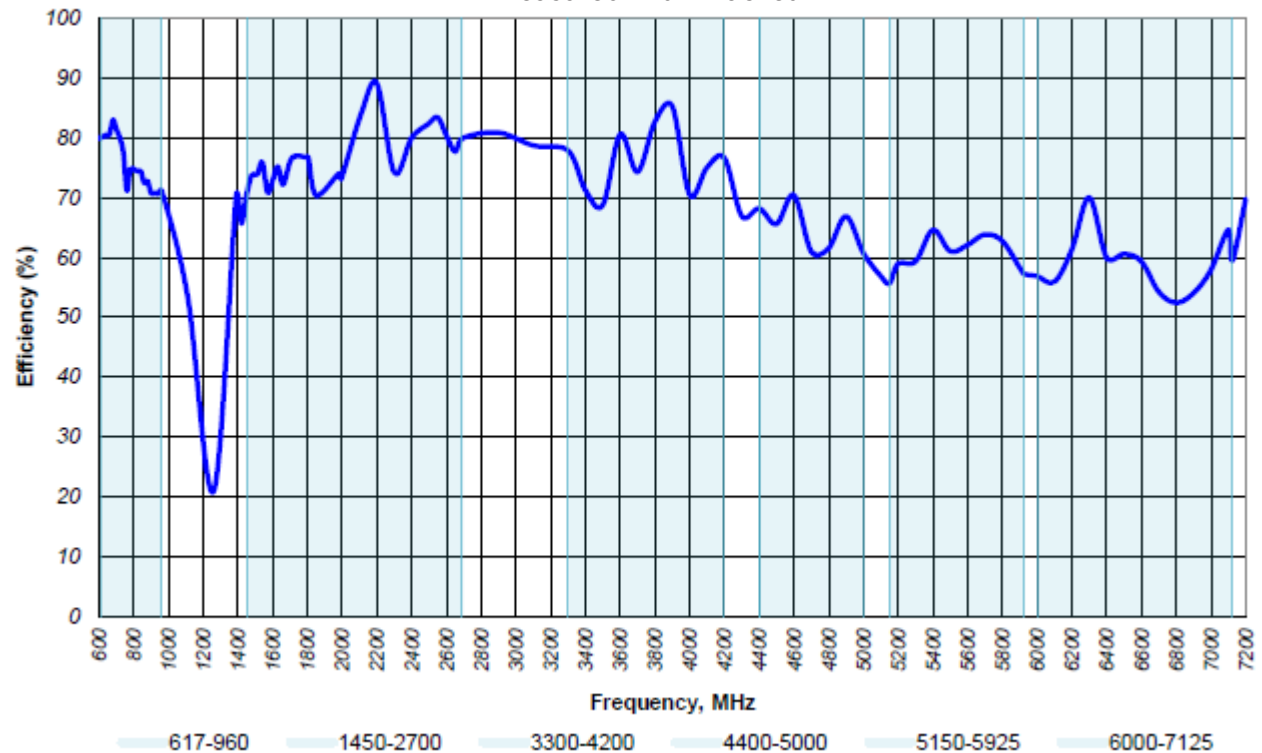
VSWR vs Frequency
Measured with Bracket

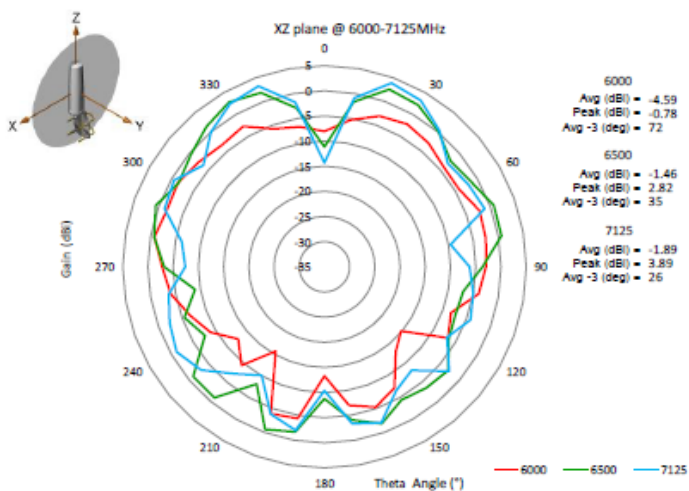
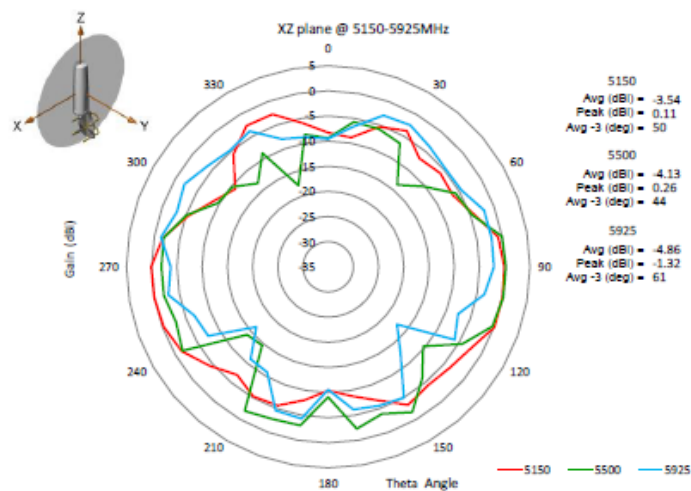
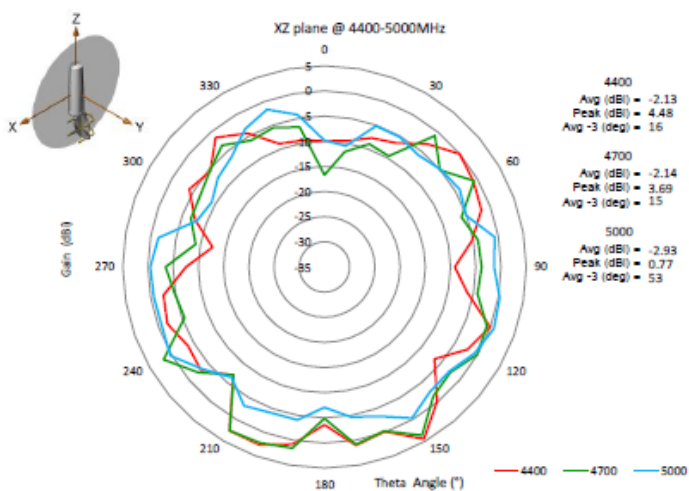
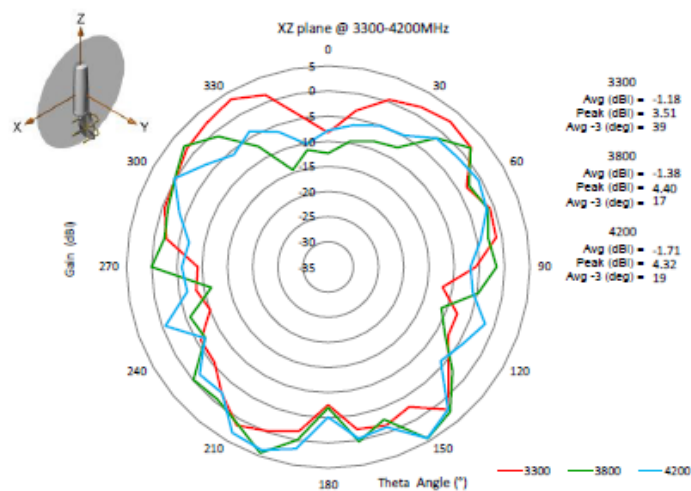
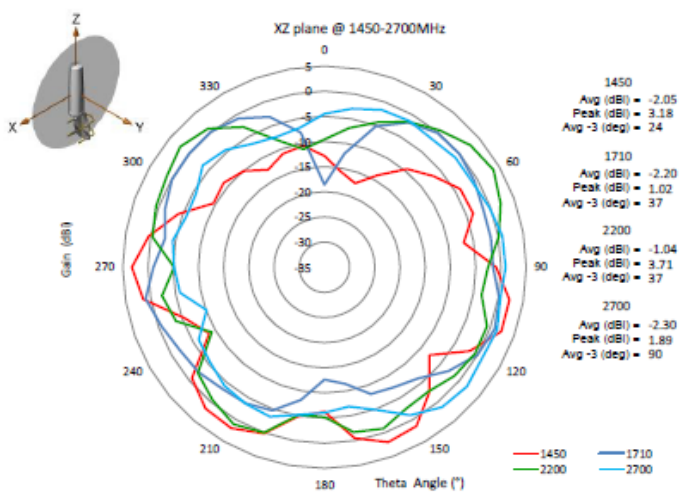
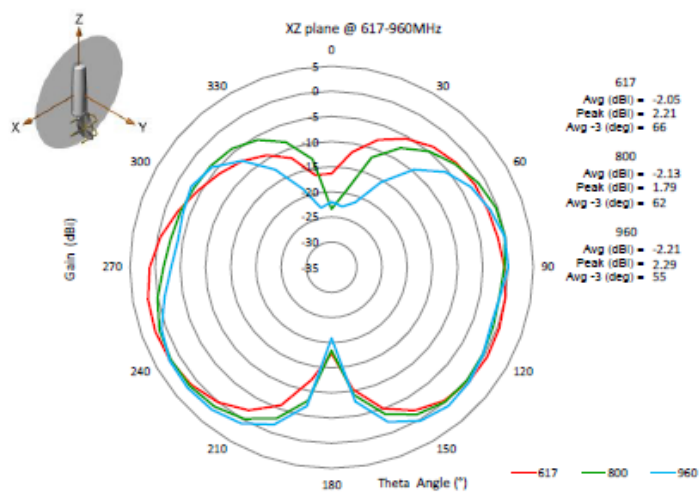


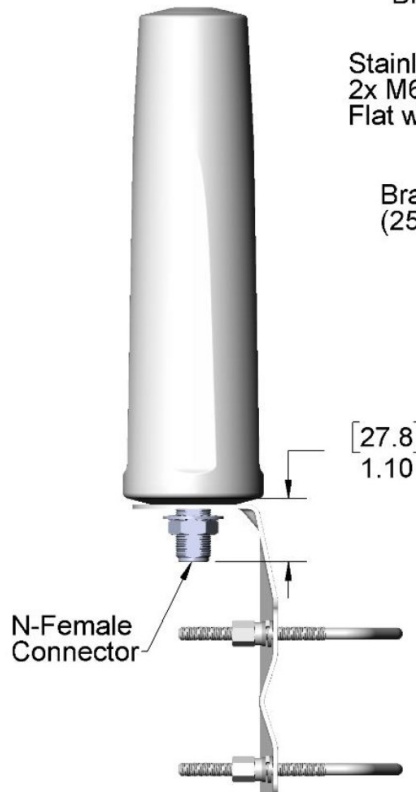
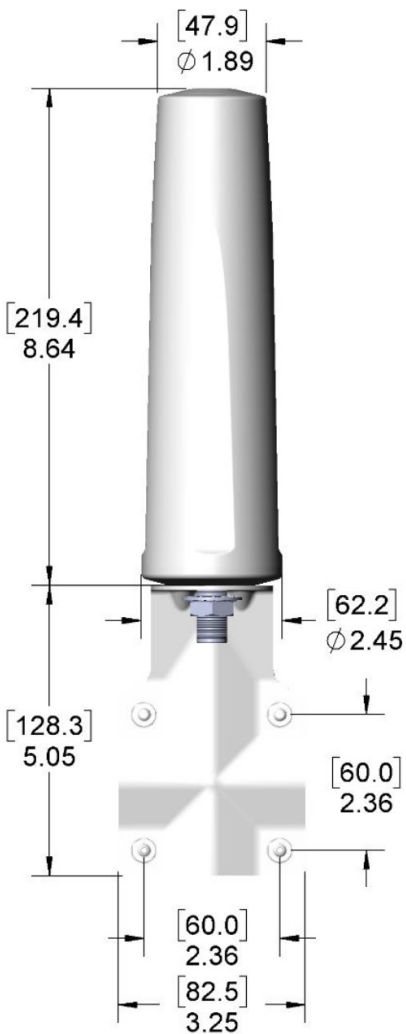
Peak Gain vs Frequency
Measured with Bracket



Efficiency vs Frequency
Measured with Bracket







UV Stable Plastic

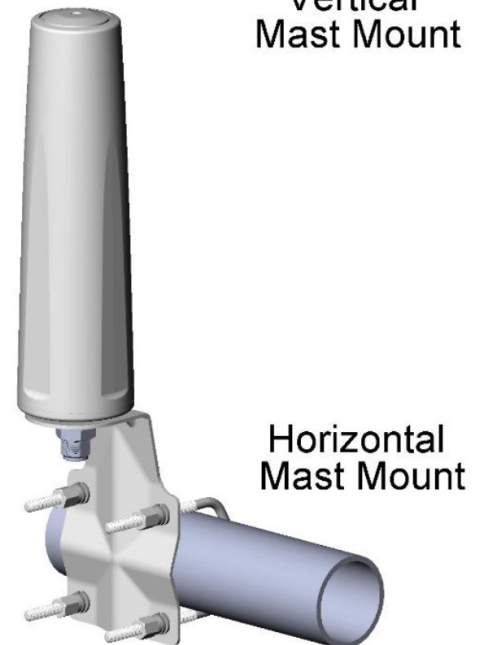
5/8-24 Mounting Nut & Star washer

Stainless steel Bracket

Stainless steel hardware
2x M6 V-Bolt, 4x M6 Nut,
Flat washer & Lock washer

Bracket mounts to $\phi 1"$ to 2.12"
(25.4 to 54mm) Pole

Vertical Mast Mount



Horizontal Mast Mount