

5GFR1 Omnidirectional Antenna

Cellular Antenna – Base Station

MHO5GFR1 Antennas PRELIMINARY



Description

High-performance, 5G base station antenna designed for broadband access.

Technologies

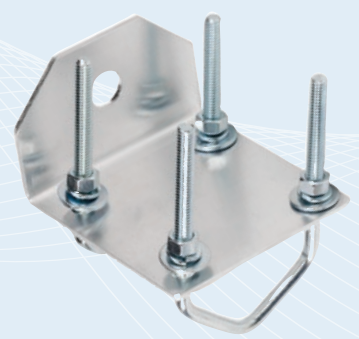
- Cellular

Features

- Innovative design for harsh environments
- Rugged, UV-resistant fiberglass housing
- Easy to install



MHO5GFR1 Series



BAM1009 mount

5G FR1 Omnidirectional Antenna

Cellular Antenna – Base Station

The MHO5GFR1 high-performance omnidirectional antenna series is designed to cover frequencies from 617 - 5925 MHz for broadband access applications. With its integral N Female and N Male connector options at the base, this antenna can be directly mounted on the radio equipment.

Features

- Slender, rugged housing (1.125" OD)
- Innovative sealed version for harsh environments
- White UV-resistant radome; protects the antenna elements from environmental factors

Certifications



5G FR1 Omnidirectional Antenna

Cellular Antenna – Base Station

Standard Configuration

Model	Connector	Mount
MHO5GFR1NF	N Female bulkhead	BAM-1009 base station aluminum mount kit for masts up to 2.4 inches in diameter included. (For N male antennas, purchase mating N female bulkhead cable assembly separately)
MHO5GFR1NM	N Male	

Electrical Specifications - RF Antenna (All models)

Frequency Ranges (MHz)	Max Gain (dBi)	VSWR	Azimuth Half Power Beamwidth	Elevation Half Power Beamwidth	Average Power (watts)	Nominal Impedance (ohms)	Polarization
617-640	1.81	4.5/3.5	360°	15° / 50°	25	50	Vertical, linear
640-896	2.38	2.7					
896-960	1.81	3					
1710-2000	3.43	3.1					
2000-2400	3.68	2.5					
2400-2700	3.17	2.5					
3300-4200	5.87	3					
4900-5925	4.33	3.5					

Mechanical and Environmental Specifications

Specification	MHO5GFR1NM	MHO5GFR1NF
Dimensions	1.125 OD x 9.38 H in (2.86 x 23.83 cm)	1.125 OD x 10.5 H in (2.86 x 26.67 cm)
Weight	0.34 lbs (.15 kg)	0.44 lbs (.20 kg)
Housing material	White UV-stable ASA	
Rated wind	125 mph (201.17 kph)	
Temperature range	-40°F to +185°F (-40°C to +85°C)	
Ingress protection	IP67	

CONTACT US

For more information about
this product contact your
sales representative or visit
> pctel.com/antenna-products

Solving Complex Wireless Challenges

PCTEL is a leading global provider of wireless technology solutions, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for 29 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



PCTEL, Inc.

T: +1 630 372 6800 | pctel.com

Specifications subject to change without notice. PCTEL® is a registered trademark of PCTEL, Inc. ©2023 PCTEL, Inc. All rights reserved. (June 2023)