

5.090 - 5.150 GHz Circular Polarized Telemetry Parabolic Antennas

Designed to deliver performance for decades

Features

- Advanced RF and mechanical construction.
- Circular Polarization - LHCP, RHCP and dual circular
- Sturdy aluminum construction reflector and pipe mount.
- All corrosion resistant materials, galvanized and stainless steel hardware.
- Mount features a fine azimuth and elevation adjustment.
- Type N or SMA Female Connector, 50 Ohm impedance
- Mounts to 1.9 - 4.5" OD pipe (48 - 114mm)
- Optional radome available.
- Antenna Survival Ratings: 1 inch (25mm) of ice and 125 mph (201 kmh) wind.
- All mWAVE antennas meet or exceed Standard ANSI/TIA-222.

Electrical Specifications



Above is the RPCR shown without radome. To the right is the same model with the optional radome.



Frequency GHz	Model No.	Polarization	Size ft.	Size m.	Gain, nominal dBic	Nominal HPBW Deg.	On-Axis Axial Ratio dB	VSWR max	Front to Back Ratio (dB)
5.090 – 5.150	RPCR2-51N-N	RHCP	2	0.6	27.4	6.7	1.0	1.5:1	33
5.090 – 5.150	RPCL2-51N-N	LHCP	2	0.6	27.4	6.7	1.0	1.5:1	33
5.090 – 5.150	RPCR3-51N-N	RHCP	3	0.9	30.8	4.5	1.0	1.5:1	36
5.090 – 5.150	RPCL3-51N-N	LHCP	3	0.9	30.8	4.5	1.0	1.5:1	36
5.090 – 5.150	RPCR4-51N-N	RHCP	4	1.2	33.3	3.4	1.0	1.5:1	39
5.090 – 5.150	RPCL4-51N-N	LHCP	4	1.2	33.3	3.4	1.0	1.5:1	39
5.090 – 5.150	RPDC2-51N-N	Dual CP	2	0.6	27.1	6.8	1.0	1.5:1	33
5.090 – 5.150	RPDC3-51N-N	Dual CP	3	0.9	30.6	4.5	1.0	1.5:1	36
5.090 – 5.150	RPDC4-51N-N	Dual CP	4	1.2	33.1	3.4	1.0	1.5:1	36

Notes:

- 1) Alternate frequency bands of operation are available within 5.000-5.400 GHz.
- 2) Single and Dual Linear polarizations are also available.

These antennas incorporate mWAVE's proprietary vertex mounted feed design delivering reduced blockage and a convenient RF access point. The models listed above are furnished with a standard with Az/EI pipe mount. Feeds and reflectors are painted grey. Alternate mounting options and custom colors are available upon request. Bulk packing is available for quantity orders. Above models incorporate mWAVE's standard COTS reflectors. mWAVE also offers single and multi-piece reflectors in larger diameters for high gain applications.

All specifications are subject to change without notice.
Designed, Engineered, and Manufactured in Windham, ME USA
mWAVE Industries is part of the Alaris Holdings Group of Companies.
© mWAVE Industries LLC - 2022 All rights reserved

Form: 5.090-5.150-Telemetry Parabolic_RPCxx-51N-N_220725.R1 DS

