Omni-directional Low Power Antennas

SOLUTION FOR

- **Data transmission base stations for telecommunications**

Main features

Technical performance

- Radiate uniformity in horizontal plane
- Directive pattern shape in vertical plane

Design

- Resists harsh environmental conditions

Delivered documents

- Conformity certificate (measured VSWR)

Related standard

- IEC 60068

Product configuration

Equipment

☐ Spring mounting
☐ Mast mount
☐ Wall mount

Related services

☐ Maintenance and customization

■ Included ☐ Optional

Electrical characteristics

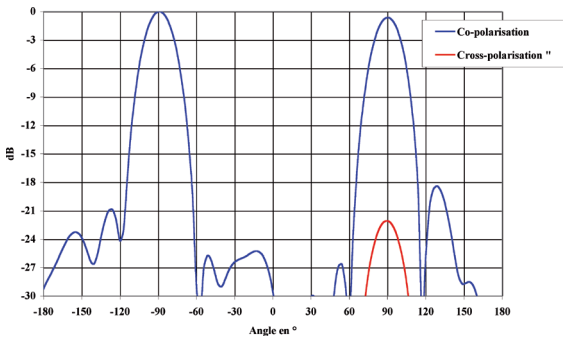
Part number	CD210-B	CD210-A	CD220-B	CD220-A	CD580-A
Frequency range	2100 – 2300 MHz	2100 – 2300 MHz	2200 – 2400 MHz	2200 – 2400 MHz	5725 – 5825 MHz
Gain	6 dBi	2 dBi	10 dBi	6 dBi	6 dBi
VSWR	2.0:1	2.0:1	2.0:1	2.0:1	2.0:1
CW power	20 W	20 W	20 W	20 W	20 W
DC ground	Yes	Yes	Yes	Yes	Yes
Type	Colinear dipole	Colinear dipole	Colinear dipole	Colinear dipole	Colinear dipole
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Polarization	Linear vertical	Linear vertical	Linear vertical	Linear vertical	Linear vertical
Radiation pattern	360° (Ripple +/- 1.5 dB)	360° (Ripple +/- 1.5 dB)	360° (Ripple +/- 1.5 dB)	360° (Ripple +/- 1.5 dB)	360° (Ripple +/- 1.5 dB)
Cross-polarization	< 20 dB	< 20 dB	< 20 dB	< 20 dB	< 20 dB

Mechanical characteristics

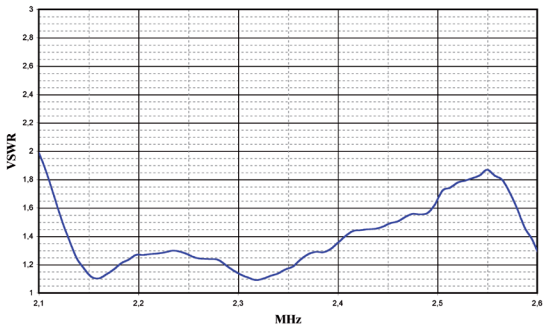
Part number	CD210-B	CD210-A	CD220-B	CD220-A	CD580-A
Dimensions					
Length (A)	400 mm	150 mm	700 mm	400 mm	180 mm
Diameter (B)	22 mm	22 mm	22 mm	22 mm	22 mm
Weight (max)	140 g	100 g	200 g	140 g	120 g
Color of the radome* (pantone)	Cool Gray 1C NATO green	Cool Gray 1C NATO green	Cool Gray 1C NATO green	Cool Gray 1C NATO green	Cool Gray 1C NATO green
Radome materials	Acrylonitrile Styrene Acrylate (ASA) UL-94-HB/ UV protected	Acrylonitrile Styrene Acrylate (ASA) UL-94-HB/ UV protected	Acrylonitrile Styrene Acrylate (ASA) UL-94-HB/ UV protected	Acrylonitrile Styrene Acrylate (ASA) UL-94-HB/ UV protected	Acrylonitrile Styrene Acrylate (ASA) UL-94-HB/ UV protected
Connector	N Female	N Female	N Female	N Female	N Female
Ingress protection	IP 67	IP 67	IP 67	IP 67	IP 67
Operating temperature	-40° C - +50° C	-40° C - +50° C	-40° C - +50° C	-40° C - +50° C	-40° C - +50° C

* Color customization upon request

CD220-A typical radiation pattern in vertical cut



CD220-A typical VSWR



Dimensional drawing