

Omni-directional High Power Antennas



SOLUTION FOR

- High power emission on cellular network frequencies

Main features

Technical performance

- Radiates power uniformly in horizontal plane
- Directive pattern shape in vertical plane
- High power up to 400 W

Design

- Easy to install on a vehicle
- Resists harsh environmental conditions

Delivered documents

- Conformity certificate (measured VSWR)
- Instructions manual

Related standard

- MIL-STD-810

Product configuration

Equipment

- Polycarbonate radome
- Co-linear dipole
- Integrated mounting flange
- Wood storage case

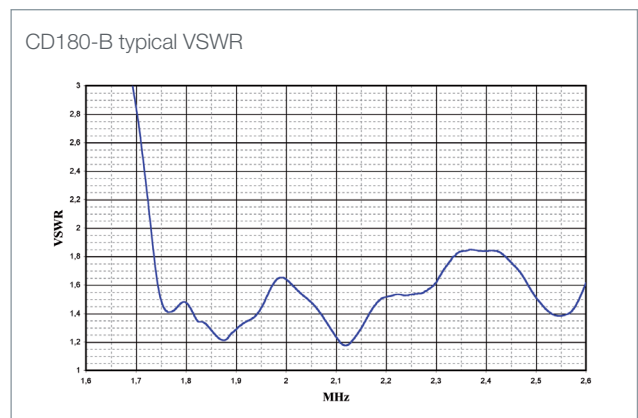
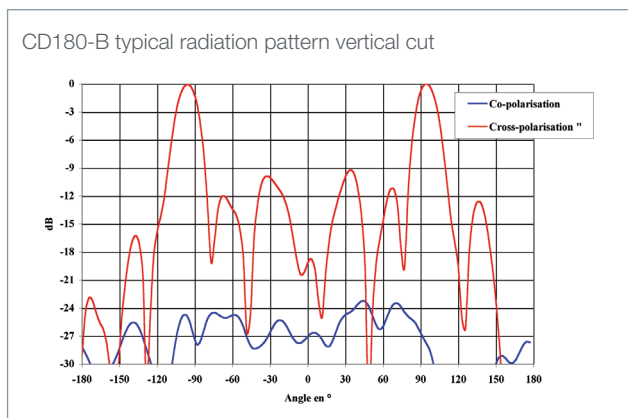
Related services

- Maintenance and customization

Included Optional

Electrical characteristics

Part number	CD080-B	CD080-A	CD180-B	CD180-A	CD200-A	CD230-A
Frequency range (MHz)	800 – 960	800 – 960	1800 – 2170	1800 – 2170	2000 – 2500	2300 – 2900
Gain	6.5 dBi	3 dBi	6.5 dBi	5.8 dBi	6.5 dBi	6.5 dBi
VSWR	2.0:1	2.0:1	2.0:1	2.0:1	2.0:1	2.0:1
CW power	400 W	400 W	400 W	400 W	400 W	400 W
DC ground	Yes	Yes	Yes	Yes	Yes	Yes
Type	Colinear dipole					
Impedance	50 Ohms					
Polarization	Linear vertical					
Radiation pattern	360° (Ripple +/-1.5 dB) – Elevation downtilt: 5°					
Cross-polarization	< 15 dB					



Mechanical characteristics

Part number	CD080-B	CD080-A	CD180-B	CD180-A	CD200-A	CD230-A
Dimensions						
Length (A)	1480 mm	500 mm	690 mm	500 mm	690 mm	690 mm
Diameter (B)	138 mm	138 mm	100 mm	100 mm	100 mm	100 mm
Diameter (C)	123 mm	123 mm	85 mm	85 mm	85 mm	85 mm
Weight	3.75 Kg	1.6 Kg	1.2 Kg	0.9 Kg	1.2 Kg	1.2 Kg
Color of the radome*	White/Black/ NATO Green	White/Black/ NATO Green	White/Black/ NATO Green	White/Black/ NATO Green	White/Black/ NATO Green	White/Black/ NATO Green
Radome	Polycarbonate/ UV protected	Polycarbonate/ UV protected	Polycarbonate/ UV protected	Polycarbonate/ UV protected	Polycarbonate/ UV protected	Polycarbonate/ UV protected
Connector	N Female	N Female	N Female	N Female	N Female	N Female
Ingress protection	IP 67	IP 67	IP 67	IP 67	IP 67	IP 67
Operating temperature	-10° C – +55° C	-10° C – +55° C	-10° C – +55° C	-10° C – +55° C	-10° C – +55° C	-10° C – +55° C
Storage temperature	-30° C +85° C	-30° C +85° C	-30° C +85° C	-30° C +85° C	-30° C +85° C	-30° C +85° C

* Customizable upon request

