

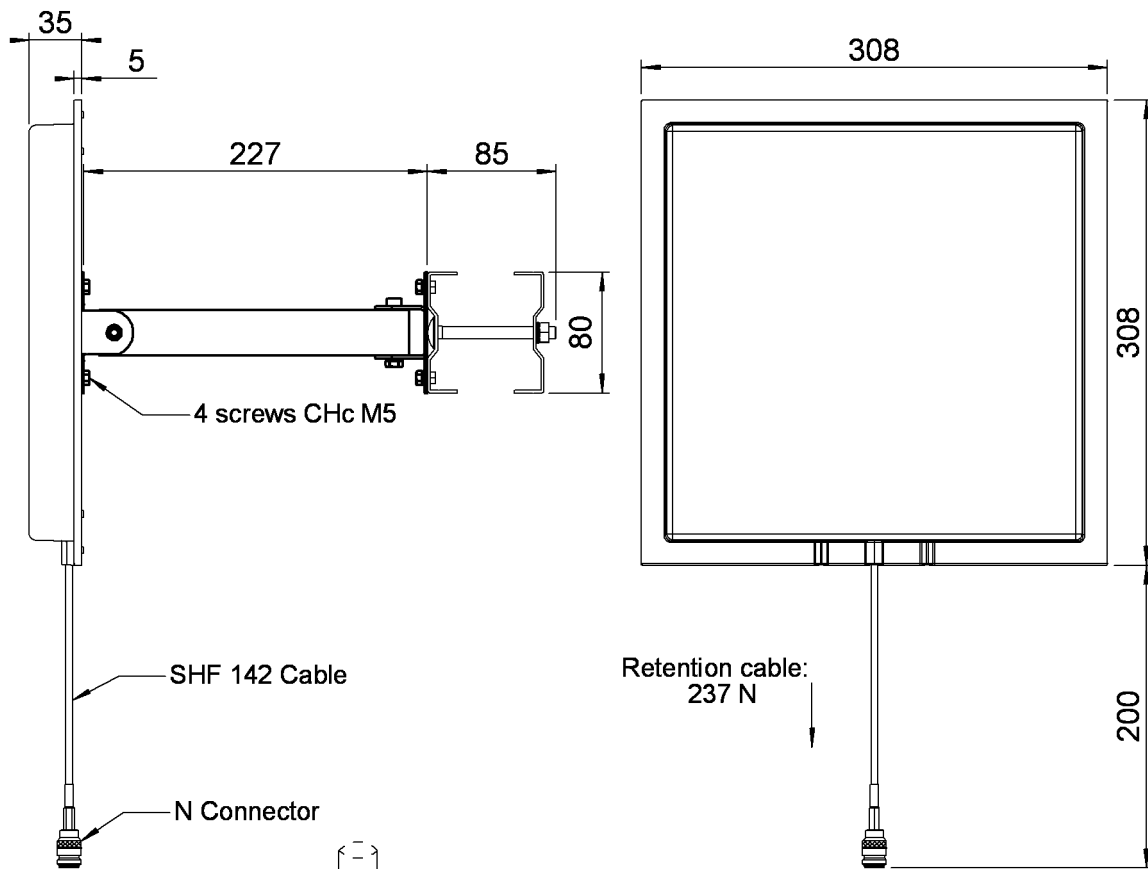
5.8 GHZ PLANAR ARRAY - 23DBI V. POLAR.

R380.700.203

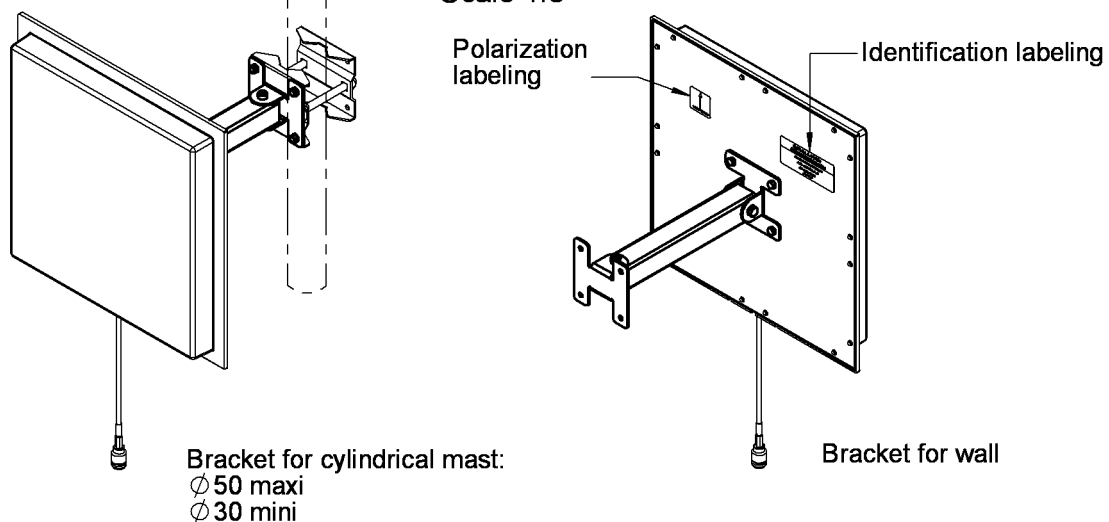
DIRECTIONAL ANTENNA

Series : ANTENNE

Scale 1:5



Scale 1:8



All dimensions are in mm



Issue : 0248 A

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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5.8 GHZ PLANAR ARRAY - 23DBI V. POLAR.**DIRECTIONAL ANTENNA****R380.700.203**

Series : ANTENNE

ELECTRICAL CHARACTERISTICS

Frequency : 5.725-5.825 GHz
Nominal Impedance : 50 Ω
VSWR : <1.5 Max

Gain (Radiating element) : 22.5 dBi (Typ)
Gain (Overall gain) : 21.7 dBi (Typ)

Radiation Pattern (conformity with EN 302 085 V1.1.1, TS3 Range 1) :

-3 dB beamwidth

Horizontal Plane : 11.7 ° (Typ)

Vertical Plane : 14.5 ° (Typ)

Side lobe level

0° <angle< 90° : <-15 dB

90° <angle< 120° : <-20 dB

120° <angle< 180° : <-30 dB

Cross Polarization level

Horizontal Plane : -17 dB Max

Vertical Plane : NA dB

Front to back ratio : -30 dB

Polarization : VERTICAL

Power withstanding : 20 W

Connector type : N (R161.237.000)

Cable type : SHF 142

Length : 200 mm $\pm$ 4 mm

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Series : ANTENNE

MECHANICAL CHARACTERISTICS

Plastic radome :	UV resistant PP
Color :	WHITE RAL 9001
Ingress Protection :	IP 55 (IEC 529)
Weight :	2550 g
Wind-loading at 100 mph (160 Km/h) in accordance with the ANSI/TIA/EIA-222-F :	
Front F max :	44.5 (198) lb (N)
Twisting Moment M max :	2.15 (2.9) lb.ft (N.m)
Overall length :	308 x 308 x 35 mm
Cable retention : Pull off :	237 N mini
Fixing system :	Bracket + Wall Mounting
Azimuth adjustment	$\pm 40^\circ \pm 4^\circ$
Elevation adjustment	$\pm 40^\circ \pm 4^\circ$

ENVIRONMENTAL CHARACTERISTICS

Operating temperature :	-40/+70 ° C
Temperature :	
Stationary	-45/+60 ° C (1),(2)
Cyclic	-45°C - +60°C Rate 0.5°C/min (3)
Humidity :	
Stationary	93% @ 30° C (4)
Cyclic	90% @ 30° C (5)
Vibration	
Sinusoidal	± 5 mm / 2 m/s² (6)
Random	0.03 g²/Hz (7)
Drop test :	0.8 m (8)

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TESTS ENVIRONMENTAL

Test report n° 98-13-7874

- (1) Tests following IEC 68-2-1 Ad
duration: 16 hours @ -45° C
- (2) Tests following IEC 68-2-2 Bd
duration: 16 hours @ +60° C
- (3) Tests following IEC 68-2-14 Nb
temperature changing rate: 0.5°C/min
time at each temperature: 3 hours
2 cycles
- (4) Tests following IEC 68-2-56 Cb
stationary: 93% @ +30° C during 21 days
- (5) Tests following IEC 68-2-30 Db
cyclic: 6 cycles of 12+12 hours
90% - 100% @ +25°C - +30°C
- (6) Tests following IEC 68-2-6 Fc
Frequency range: 5 – 200 –5 Hz
3 directions
duration : 12 mn/cycle
5 cycles in 3 axes
- (7) Tests following IEC 68-2-36 Fb
Level (ASD): 6 grms / F: 10 – 200 Hz
Frequency range: 200 Hz – 2 kHz
3 directions / 10 min per direction
- (8) Tests following IEC 68-2-32 Ed
Height: 0.8 m
1 fall for each face

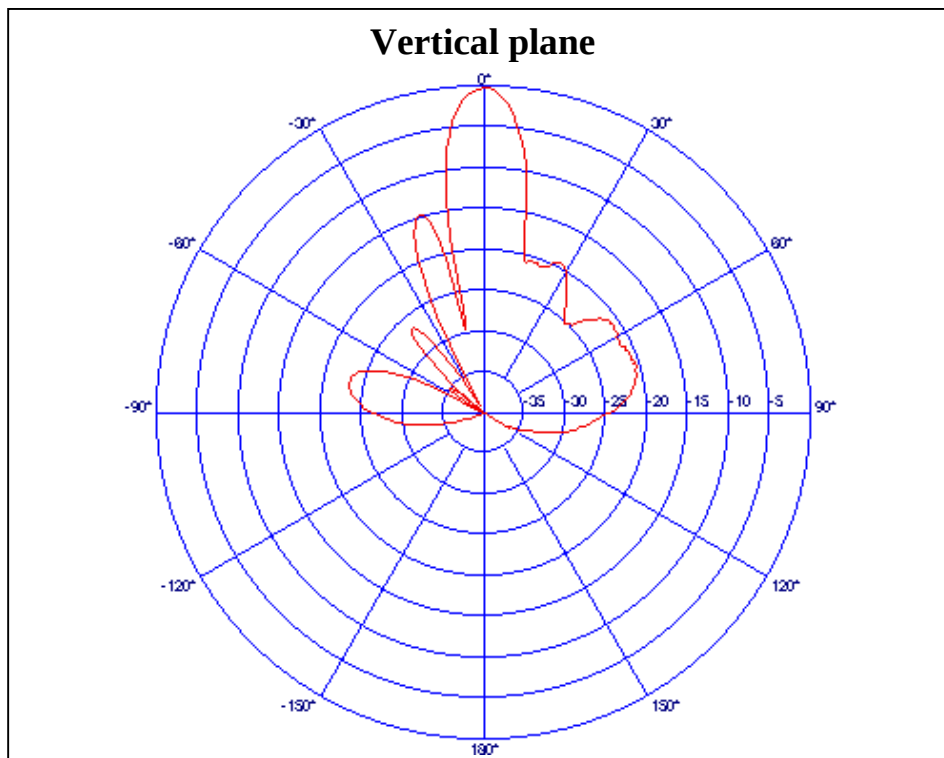
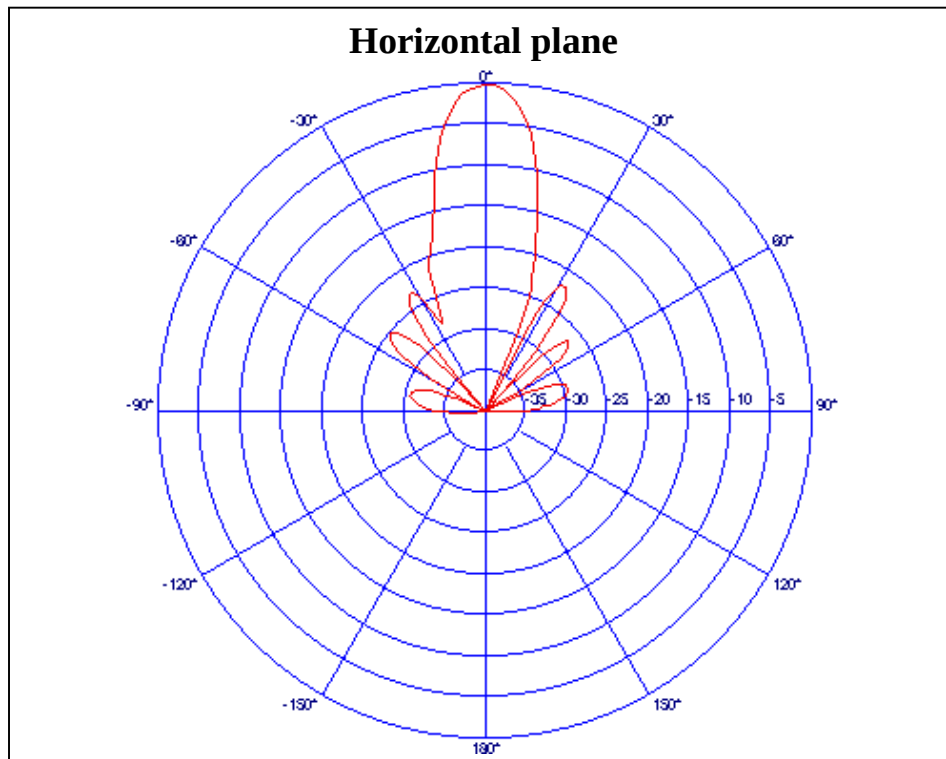
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