

Planar Antennas for WLAN Application



SOLUTION FOR

- General transmitting and receiving applications from 2.1 to 5.8 GHz
- Radar doppler and radio link point-to-point

Main features

Technical performance

- Optimized gain
- Handling power up to 20 W
- Low profile

Design

- Easy to integrate in existing installations
- Connector on the back

Delivered documents

- Conformity certificate (measured VSWR)

Related standard

- IEC 60068

Product configuration

Equipment

- Mast mount
- Wall mount

Related services

- Maintenance and customization

■ Included □ Optional

Electrical characteristics

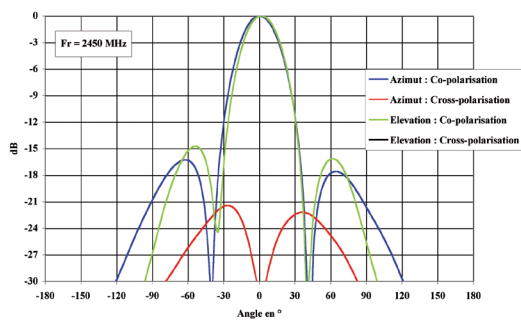
Part number	PA210-A	PA220-A	PA580-A
Frequency range	2100 – 2300 MHz	2200 – 2400 MHz	5725 – 5875 MHz
Gain	≥ 14 dBi	≥ 14 dBi	≥ 18 dBi
VSWR	1.8:1	1.8:1	1.8:1
CW power	20 W	20 W	20 W
Type	Patch array antenna	Patch array antenna	Patch array antenna
Impedance	50 Ohms	50 Ohms	50 Ohms
Polarization	Linear vertical	Linear vertical	Linear vertical
DC ground	Yes	Yes	Yes
Radiation pattern	Directive	Directive	Directive
Side lobes H plan	< -13 dB	< -13 dB	< -15 dB
Side lobes V plan	< -13 dB	< -13 dB	< -15 dB
Beamwidth at 3 dB H plan	30° ± 4°	30° ± 4°	20° ± 4°
Beamwidth at 3 dB V plan	30° ± 4°	30° ± 4°	20° ± 4°

Mechanical characteristics

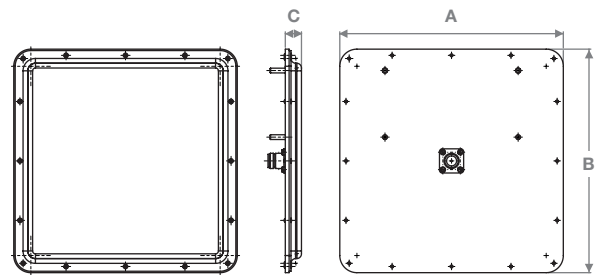
Part number	PA210-A	PA220-A	PA580-A
Dimensions			
Length (A)	235 mm	235 mm	235 mm
Width (B)	235 mm	235 mm	235 mm
Thickness (C)	17 mm	17 mm	17 mm
Weight (max)	1 Kg	1 Kg	1 Kg
Radome	ABS/ASA (White)*	ABS/ASA (White)*	ABS/ASA (White)*
Connector	N Female	N Female	N Female
Operating temperature	-40° C - +55° C	-40° C - +55° C	-40° C - +55° C

* Different colors available upon request

PA220-A typical radiation pattern cuts



Dimensional drawing



PA220-A typical VSWR

