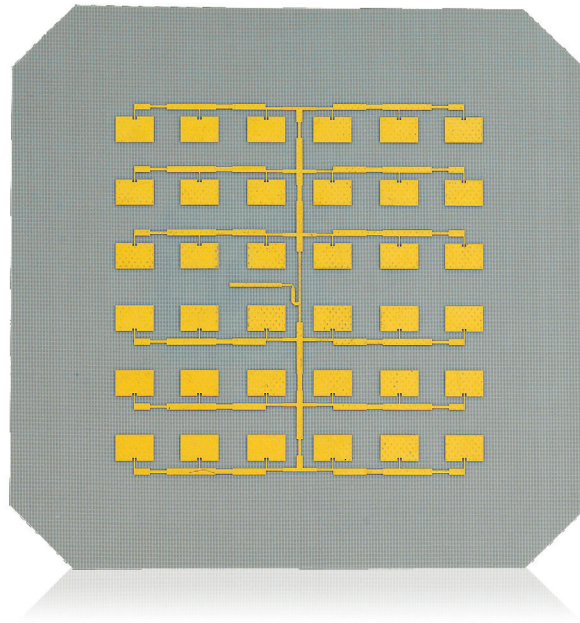


Planar Antennas for Integrated Applications



SOLUTION FOR

- General transmitting and receiving applications at 24 GHz
- Radar and radio link point-to-point

Main features

Technical performance

- High gain
- Power handling up to 20 W
- Linear or circular polarization

Design

- Optimized WR42 microstrip transition allows the connection of electronic parts with a standard flange
- Can be easily integrated in existing systems

Delivered documents

- Conformity certificate (measured VSWR)

Related standard

- IEC 60068

Product configuration

Equipment

- Ground plane
- Mounting flange

Related services

- Maintenance and customization

■ Included □ Optional

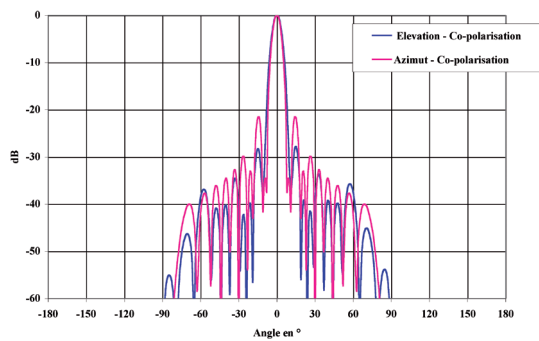
Electrical characteristics

Part number	PA2400-A	PA2400-B	PA2400-C	PA2400CP-A
Frequency range	24.025 – 24.225 GHz	24.025 – 24.225 GHz	24.025 – 24.225 GHz	24.025 – 24.225 GHz
Gain	26 dBi	23 dBi	20 dBi	21 dBi
VSWR	2.0:1	2.0:1	2.0:1	2.0:1
CW power	20 W	20 W	20 W	20 W
Type	Patch array	Patch array	Patch array	Patch array
Patch array antenna impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Polarization	Linear	Linear	Linear	RHCP
Radiation pattern	Directive	Directive	Directive	Directive
Side lobes H plan	< -20 dB	< -20 dB	< -16 dB	< -16 dB
Side lobes V plan	< -25 dB	< -25 dB	< -18 dB	< -18 dB
Beamwidth at 3 dB	8° x 8°	13° x 8°	13° x 13°	11° x 11°

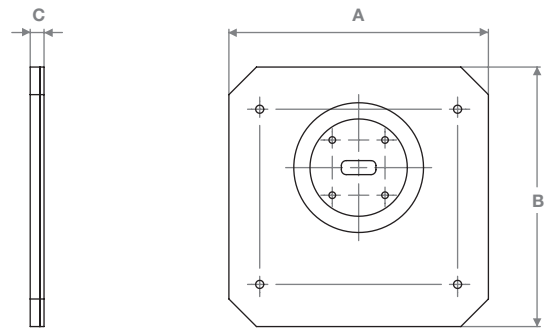
Mechanical characteristics

Part number	PA2400-A	PA2400-B	PA2400-C	PA2400CP-A
Dimensions				
Length (A)	130 mm	130 mm	80 mm	80 mm
Width (B)	130 mm	70 mm	80 mm	80 mm
Thickness (C)	5 mm	5 mm	5 mm	5 mm
Weight	< 250 g	< 200 g	< 100 g	< 100 g
Radome	No	No	No	No
Connector	WR42	WR42	WR42	WR42
Operating temperature	-40° C - +50° C	-40° C - +50° C	-40° C - +50° C	-40° C - +50° C

Typical radiation pattern for PA2400-A



Dimensional drawing



PA2400 typical VSWR

