TECH APP CONSULTANTS

Data Sheet

S-BAND PATCH ARRAY

OVERVIEW

The 2x2 patch array is one example of the many S-band patch antennas TAC offers. The design can be easily scaled up or down, from one single patch with lower gain to larger array with shaped radiation beam or pattern and higher gain.

A sequential feeding mechanism is employed in this 2x2 array thus an excellent axial ratio is achieved.

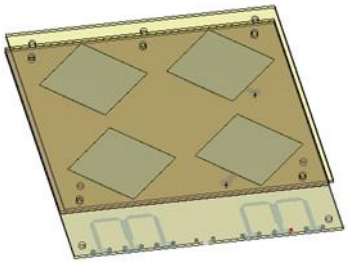
KEY FEATURES

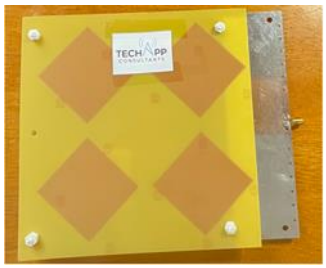
- Stacked patch design
- Wide frequency bandwidth
- High efficiency and high gain
- Circular polarization
- Low cost FR4 PCB construction
- Scalable to a single, smaller or larger array

CONTACT US

Info@TechAppConsultants.com
www.TechAppConsultants.com

DESIGN AND PROTOTYPE UNIT





SPECIFICATIONS [1]

Parameter	Specification	Note
Frequency (GHz)	1.98 – 2.20	
Gain (dBic)	9	Measured at the SMA connector
Beamwidth (°)	45	3dB beamwidth
Polarization	RHCP	
Return loss (dB)	-20	Measured at SMA connector
Axial Ratio (dB)	0.5	
PIM	Low	Low PIM design
RF interface	SMA	Other interfaces available
Dimension (mm)	170 x 170 X 12	
Mass (g)	100	

[1] These are the typical specifications. There is a range of designs with different dimensions, gains and operating frequencies to choose from to meet different applications and requirements

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