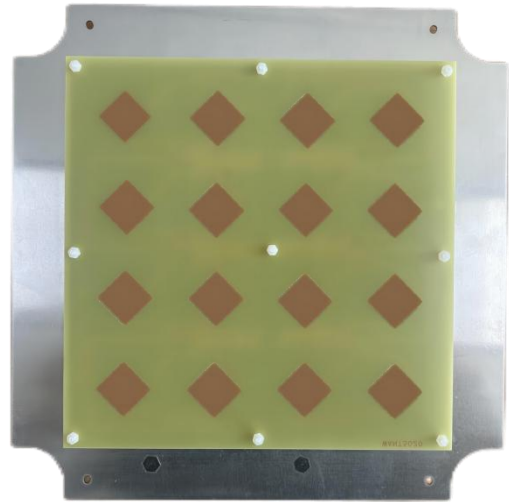


1. Feature

- 19dBi Dual Polarized Micro strip Antenna Array
- 5GHz of frequency
- MMCX connector
- Support 802.3 11BE/AX/AC/AN
- RoHS compliance

2. Application

- 5GHz Wireless Communication
- WLAN device, WLAN Router, e.g., AP, PIC Wireless Card



3. Description

This antenna array is designed for 5GHz applications and can be easily built-in portable devices with MHF processes. It has excellent stability and sensitivity to consistently provide high signal reception efficiency.

4. General Data

Product Name	Dual Polarized Micro strip Antenna Array
Part No.	DR5G19
Frequency	5.150GHz-5.850 GHz
V.S.W.R	<2
Gain (dBi)	19dbi
Polarization	Vertical & horizontal
Isolation	>40db
Storage Temp	-20°C~70°C
Operating Temperature	-20°C~60°C
Antenna Type	Antenna Array
Dimension	230*230mm

5. Typical Electrical Characteristics

VSWR& Smith chart

Port1



Port2



Gain (dBi) VS Efficiency

Port1

Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(%)	BW@theta=90
5150	20.491	19.4298	78.3215	17.2751
5200	20.6087	19.4174	76.0095	17.492
5250	20.7227	19.376	73.3385	17.2939
5300	20.7105	19.5922	77.299	17.2603
5350	20.7216	19.8074	81.0168	16.9527
5400	20.6431	19.7887	82.1412	16.4262
5450	20.5496	19.7423	83.0359	16.2915
5500	20.4316	19.3148	77.325	16.1611
5550	20.2931	18.8607	71.9041	16.0973
5600	20.197	18.6444	69.9421	16.0339
5650	20.1511	18.57	69.4853	15.8504
5700	20.2404	18.6718	69.6841	15.6747
5750	20.3298	19.1135	75.5735	15.4188
5800	20.3728	19.577	83.2581	14.9896
5850	20.2094	19.6504	87.9222	14.5728

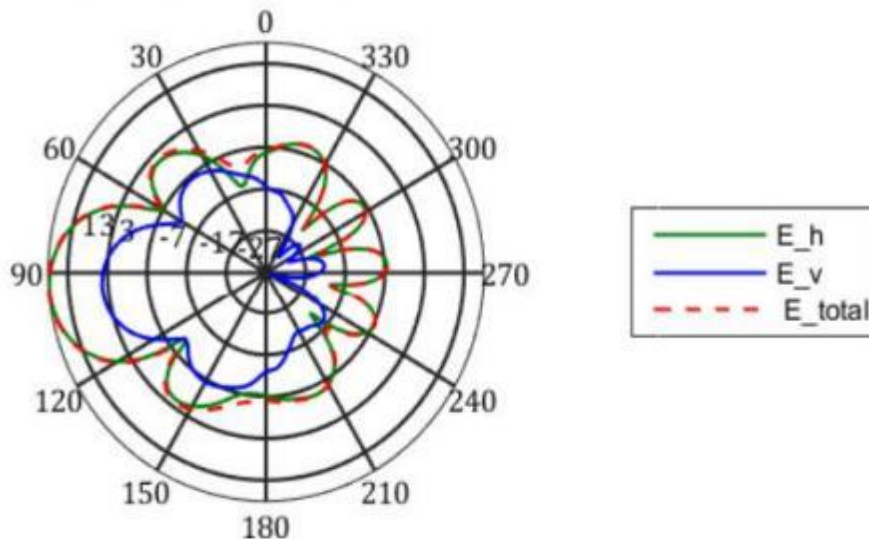
Port2

Frequency (MHz)	Directivity(dB)	Gain(dB)	Efficiency(%)	BW@theta=90
5150	20.0027	19.1614	82.3896	17.2125
5200	20.1109	18.8493	74.7902	17.0087
5250	20.1284	18.6083	70.4683	16.9872
5300	20.1262	18.7199	72.3392	17.1335
5350	20.1784	18.9817	75.915	16.8715
5400	20.1897	19.3213	81.8765	16.6198
5450	20.1001	19.4103	85.3145	16.3957
5500	20.065	19.0579	79.3025	16.0446
5550	19.9703	18.6215	73.302	15.8777
5600	19.7579	18.1602	69.2208	15.6681
5650	19.6128	18.0793	70.2508	15.6974
5700	19.462	18.1092	73.235	15.9779
5750	19.3893	18.243	76.8027	16.3544
5800	19.4348	18.4914	80.4735	16.3619
5850	19.2196	18.1116	77.4835	16.0538

2D Polar Plots

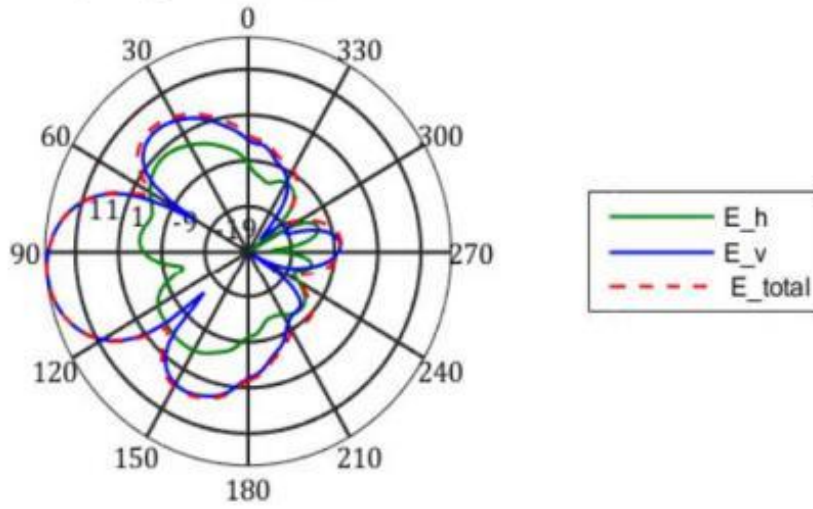
Port1

frequency=5600MHz, X-Y Plane



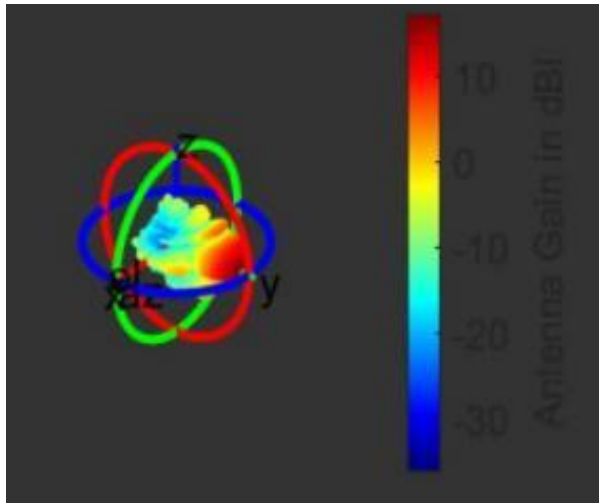
Port2

frequency=5600MHz, X-Y Plane



3D Polar Plots

Port1



Port2

