

5.8G Microwave Radar Antenna Specification

Model Name: 5.8G-RAD-PCB-01

Date: 2026-06-09

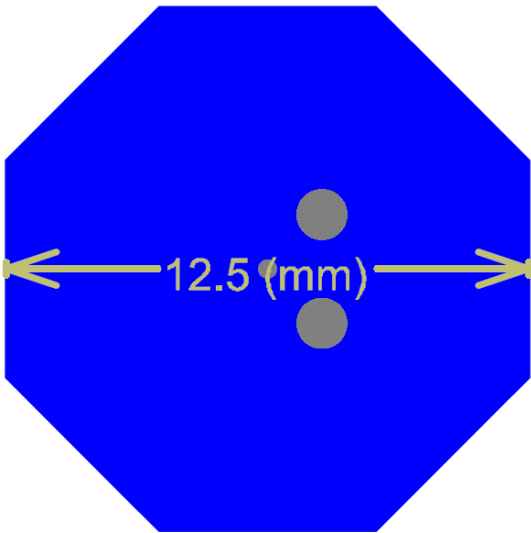
Manufacturer: Shenzhen SCH Electronics Co., Ltd.

ITEM	ANT SPEC 5.8G Microwave Radar Antenna					
Model Name	5.8G-RAD-PCB-01					
Center Frequency	Horizontal			Vertical		
	5700MHz	5800MHz	5900MHz	5700MHz	5800MHz	5900MHz
Gain	2.12	2.35	2.08	1.95	2.21	1.87
MAX. Gain	2.35dBi					
Polarization	Horizontal and Vertical					
Azimuth Beam Pattern	Wide beam					
Impedance	50 Ohm					
Antenna Size	12.5mm*12.5mm					
Manufacture	Shenzhen Shenchuanghui Electronics Co., Ltd.					
Manufacture Address	Room 203, Building B15, Xixiang Creative Park, Bao'an District, Shenzhen					

Antenna Photo & Dimension (mm)

Overall Size: 12.5mm × 12.5mm

Inner Spacing: 5.1mm



Horizontal Polarization Test

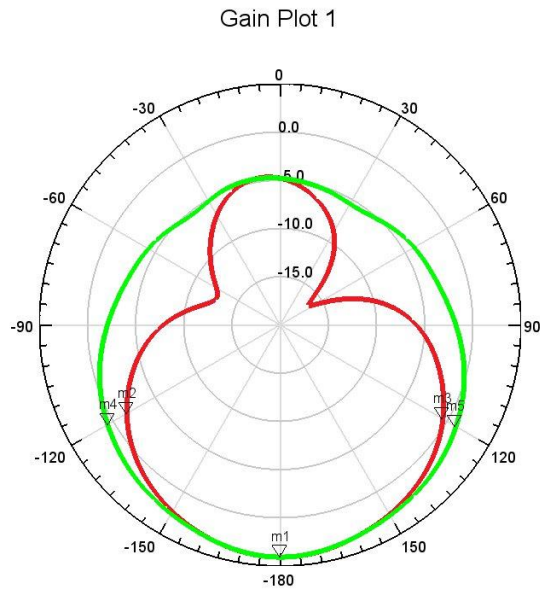
5.8G Radar ANT

Horizontal: 5700 MHz 5800 MHz 5900 MHz

Power (dBm) Max: 0 Min: -40 Scale: 5/div

Angle: 30° /330° 60° /300° 120° /240° 150° /210° 180°

Name	Theta [deg]	Ang	Mag
m1	-180	-180.0000	4.0851
m2	-120	-120.0000	-1.6282
m3	120	120.0000	-0.4968
m4	-120	-120.0000	0.6647
m5	120	120.0000	1.0792

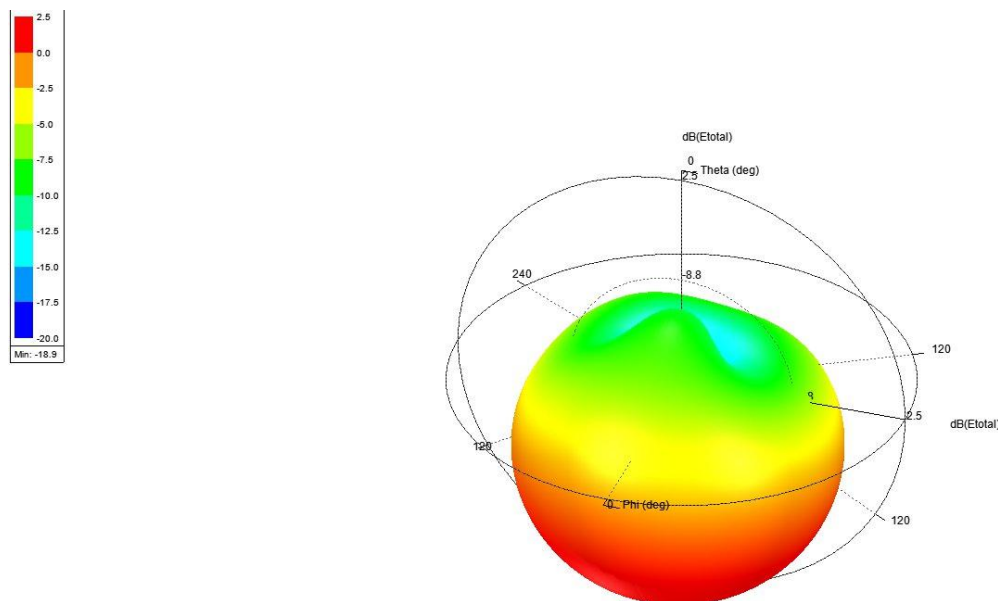


PCB **Ansys**
2023 R1

—	dB(GainTotal)
—	Setup1: Last Adaptive
—	Freq=5.8GHz' Phi='0deg'
—	dB(GainTotal)
—	Setup1: Last Adaptive
—	Freq=5.8GHz' Phi='90deg'

Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
5700	2.12156	-28.6522	-6.35218
5800	2.35213	-32.1547	-5.98742
5900	2.08362	-26.8915	-6.81253

Angle: 30° / 330° 60° / 300° 120° / 240° 150° / 210° 180°



Frequency (MHz)	Gain(dBi)		
	Max	Min	Avg
5700	1.95237	-20.5681	-11.2546
5800	2.21105	-23.1254	-9.87621
5900	1.87261	-27.3698	-10.6587