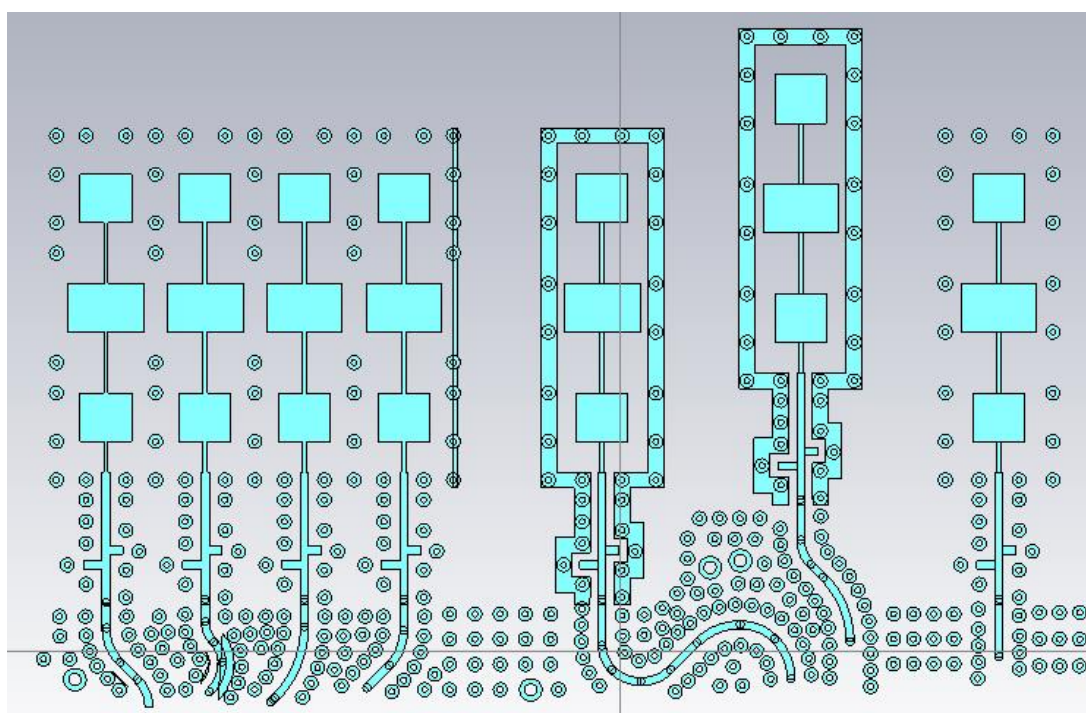


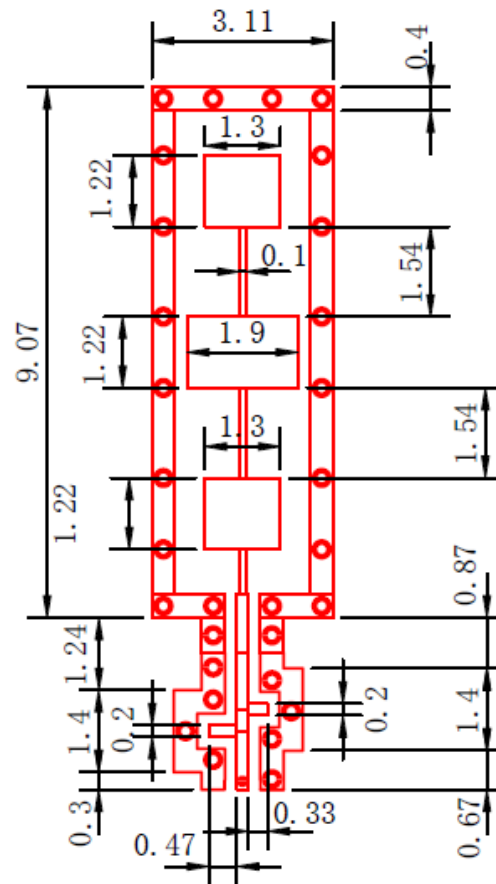
MMWS On Board Antenna Specification

1. Structural Drawing

The detailed information for antenna as below shows:

Design Specifications	Typical
Antenna Type	Integrated Patch Antenna
Model No.	60007498
Working Frequency	57 GHz-71 GHz
Overall Dimensions	PCB (11.38 mm*25.40 mm)
Antenna Gain	6.27 dBi
Manufacturer	Shanghai United Imaging Healthcare Co., Ltd.
Address of Manufacturer	2258 Chengbei Rd., Jiading District, Shanghai, China





2. Efficiency and Gain

Freq. (GHz)	Effic. (dB)	Effic. (%)	Gain (dBi)
60	-5.649	27.23%	4.357
60.2105	-5.473	28.36%	4.334
60.4211	-5.311	29.44%	4.433
60.6316	-5.162	30.46%	4.528
60.8421	-5.024	31.45%	4.622
61.0526	-4.899	32.37%	4.714
61.2632	-4.784	33.24%	4.803
61.4737	-4.679	34.05%	4.945
61.6842	-4.584	34.80%	5.091
61.8947	-4.497	35.51%	5.228
62.1053	-4.419	36.15%	5.357
62.3158	-4.349	36.74%	5.479
62.5263	-4.386	36.43%	5.594
62.7368	-4.23	37.76%	5.703
62.9474	-4.18	38.19%	5.808
63.1579	-4.136	38.58%	5.908
63.3684	-4.098	38.92%	6.004
63.5789	-4.064	39.23%	6.097
63.7895	-4.036	39.48%	6.187
64	-4.011	39.71%	6.274

3. Directional Pattern

