

I79-48 Antenna Report

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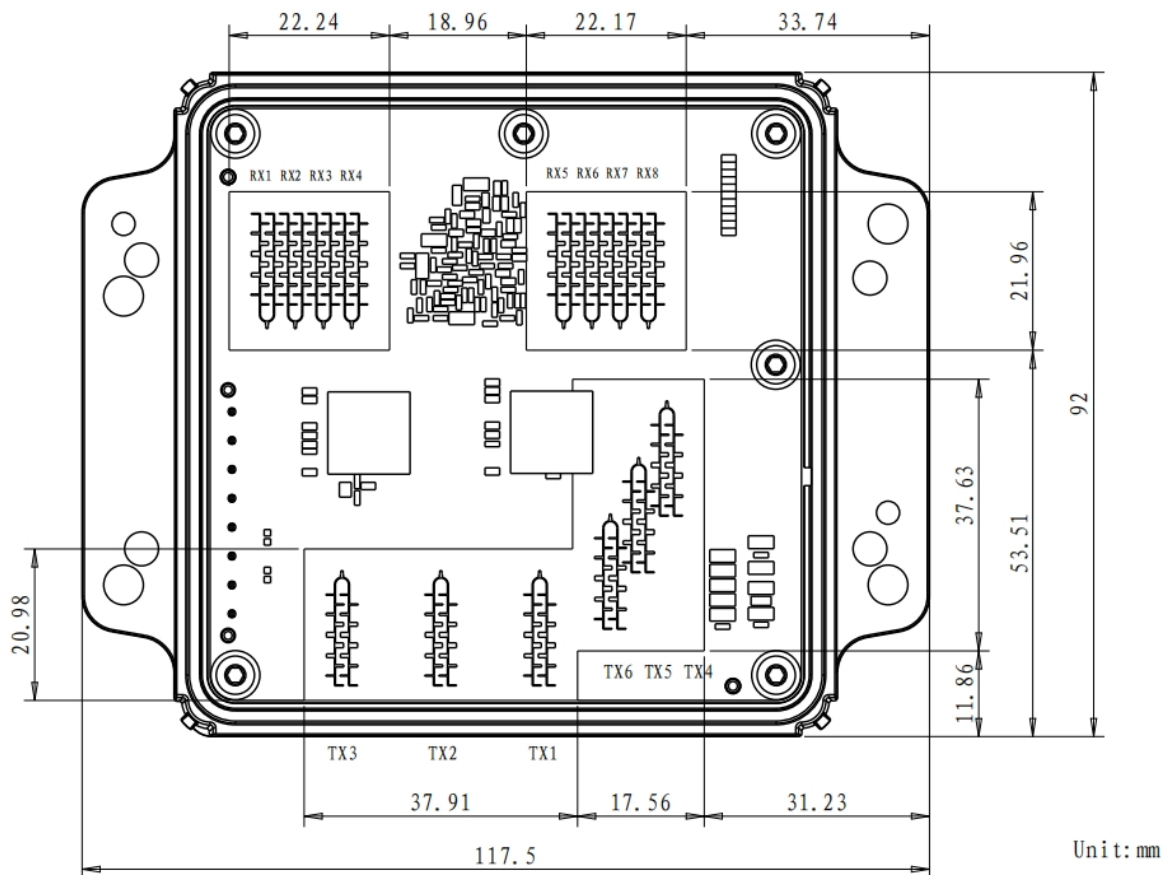
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1. Antenna Description

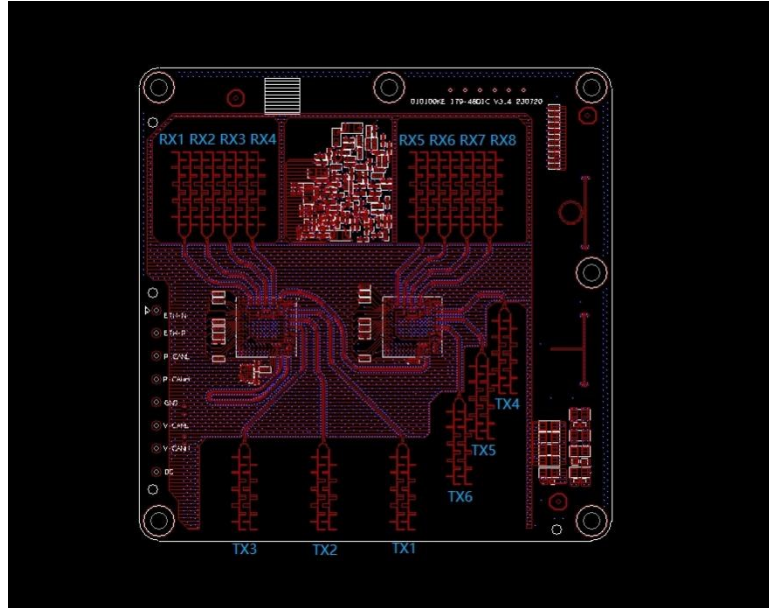
I79-48 radar has six transmitters and eight receivers, I79-48 Tx(Transmitter) antenna is a 2×10 Comb antenna array antenna with a gain of 14.8 dBi. Rx(Receiver) antenna is a 2×10 Comb antenna array antenna with a gain of 14 dBi. The frequency range of the antenna is 76 to 77 GHz.

2. Antenna Layout and Dimensions

Antenna area view in Mechanical dimensions:

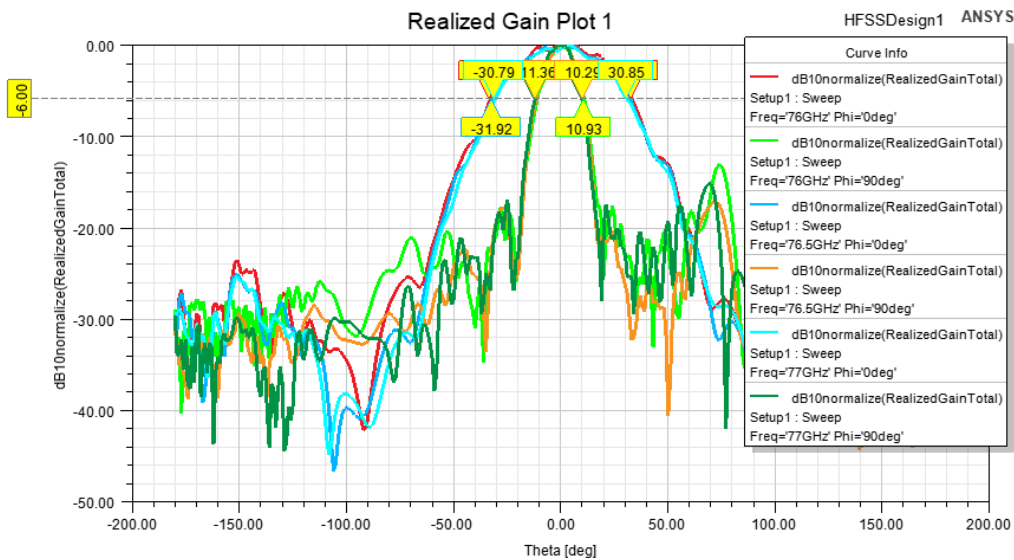


Antenna area view in PCB design:



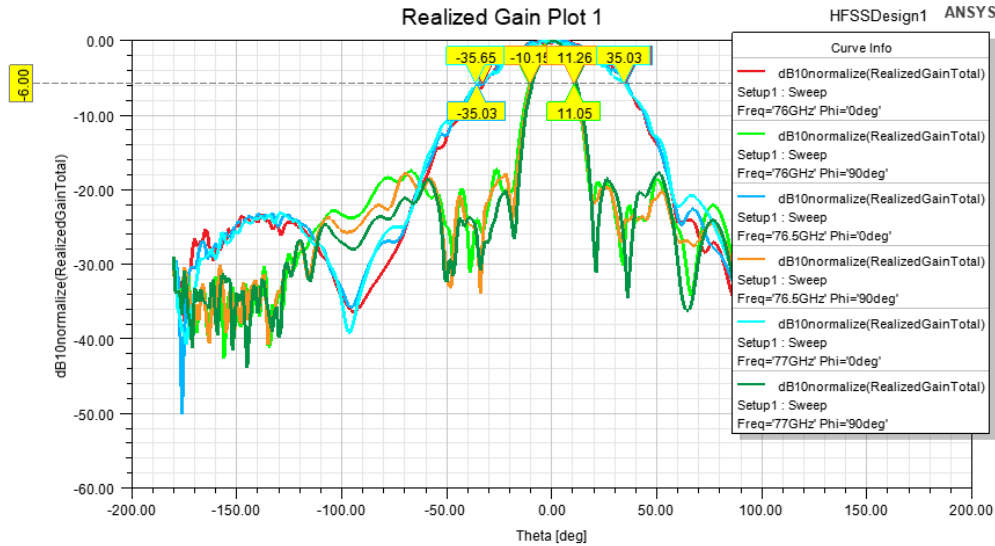
3. Antenna Simulation Report

Tx Antenna Simulation Result:



Realized Gain(dBi)	14.8
3dB Beam width:(Azimuth,Elevation)(deg)	51*(16)
6dB Beam width:(Azimuth,Elevation)(deg)	66*(22)

Rx Antenna Simulation Result:



Realized Gain(dBi)	14
3dB Beam width:(Azimuth,Elevation)(deg)	48*(15)
6dB Beam width:(Azimuth,Elevation)(deg)	68*(22)

4. Antenna manufacturer name and address

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