

T-79-G3B Antenna Report

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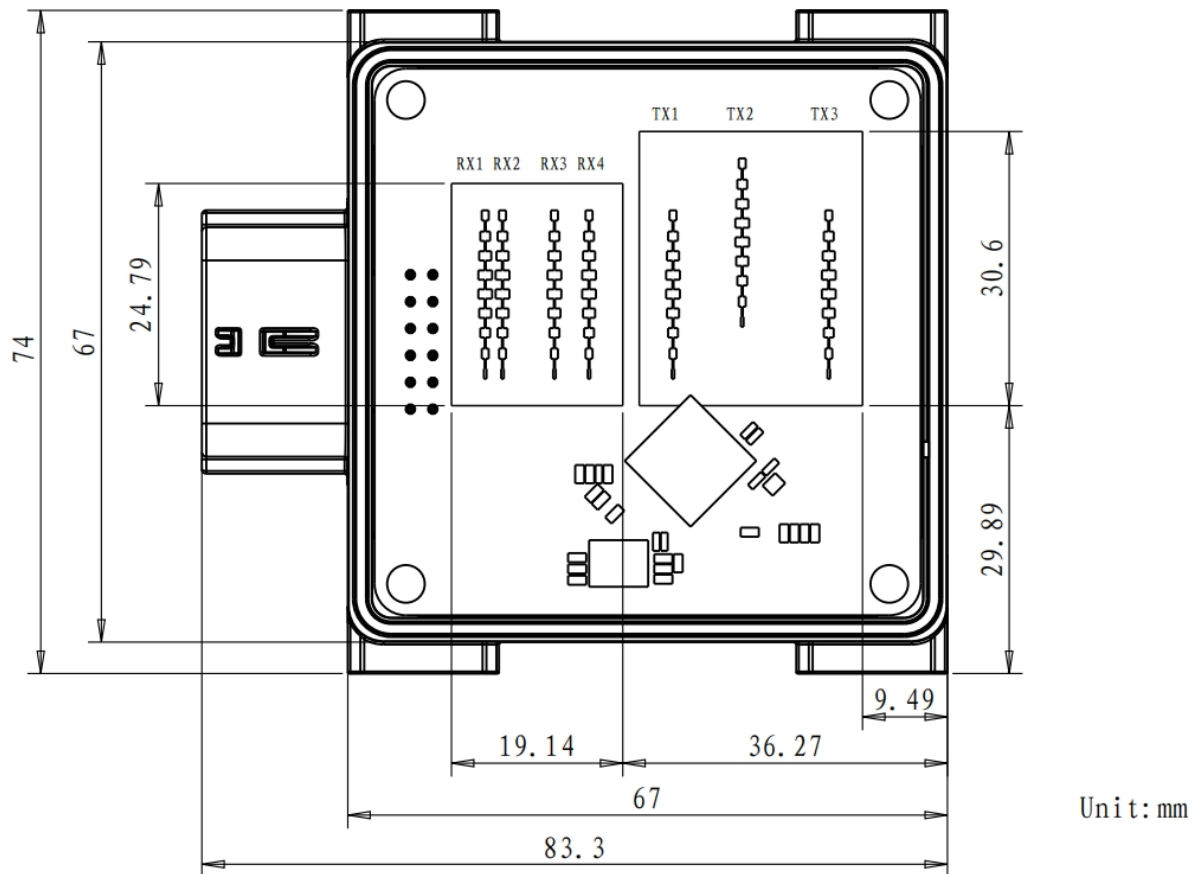
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1. Antenna Description

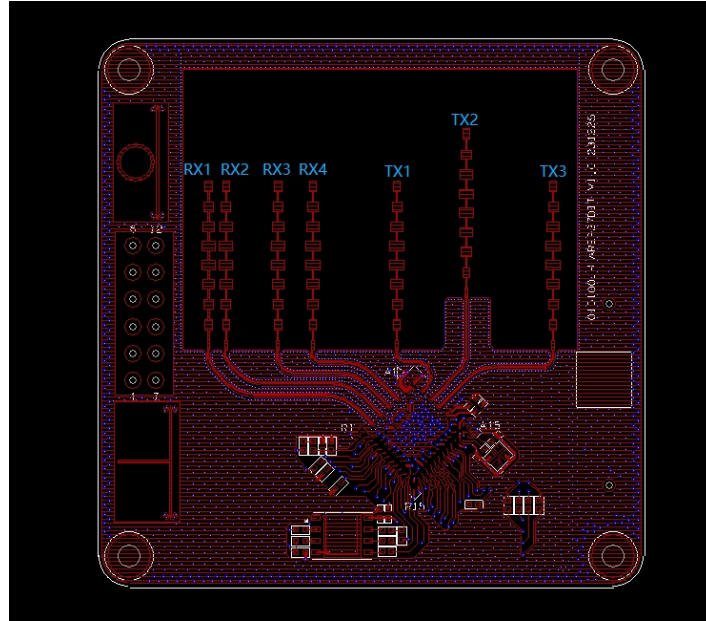
EP37 radar has three transmitters and four receivers, EP37 Tx(Transmitter) antenna is a 1×8 patch array antenna with a gain of 14.8 dBi. Rx(Receiver) antenna is a 1×8 patch array antenna with a gain of 12.7 dBi. The frequency range of the antenna is 77 to 78 GHz.

2. Antenna Layout and Dimensions

Antenna area view in Mechanical dimensions:

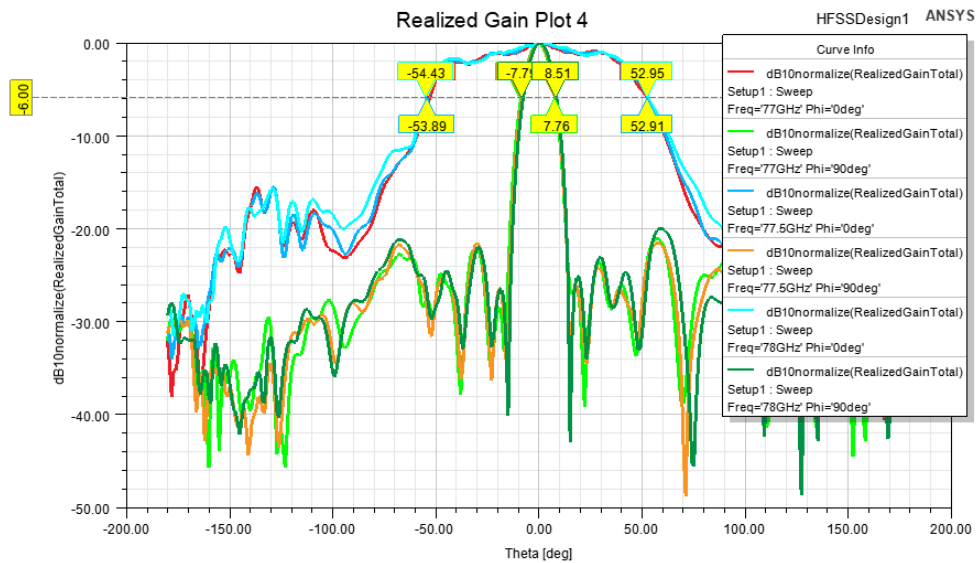


Antenna area view in PCB design:



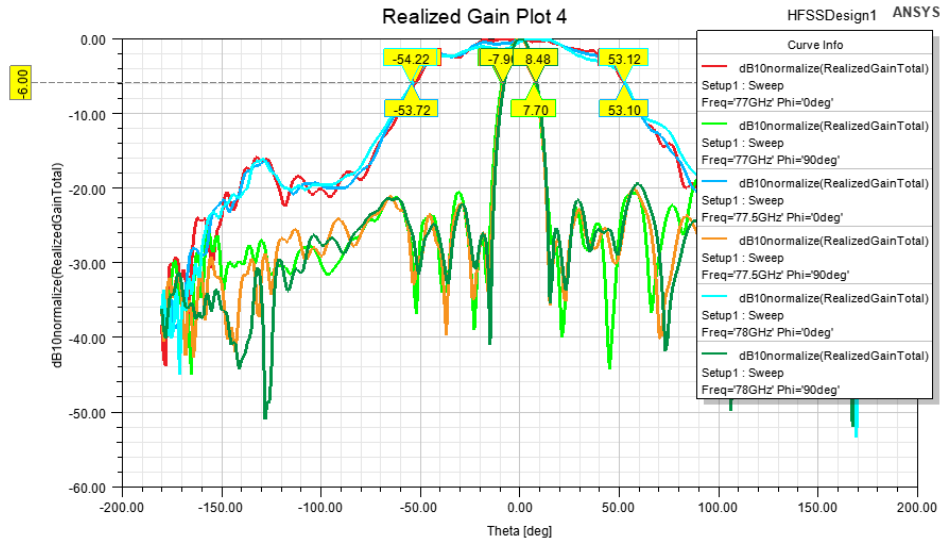
3. Antenna Simulation Report

Tx Antenna Simulation Result:



Realized Gain(dBi)	14.8
3dB Beam width:(Azimuth,Elevation)(deg)	91*(12)
6dB Beam width:(Azimuth,Elevation)(deg)	105*(16)

Rx Antenna Simulation Result:



Realized Gain(dBi)	12.7
3dB Beam width:(Azimuth,Elevation)(deg)	91*(12)
6dB Beam width:(Azimuth,Elevation)(deg)	106*(17)

4. Antenna manufacturer name and address

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