

TAG-G1 Antenna Report



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Lawrence, KS 66047

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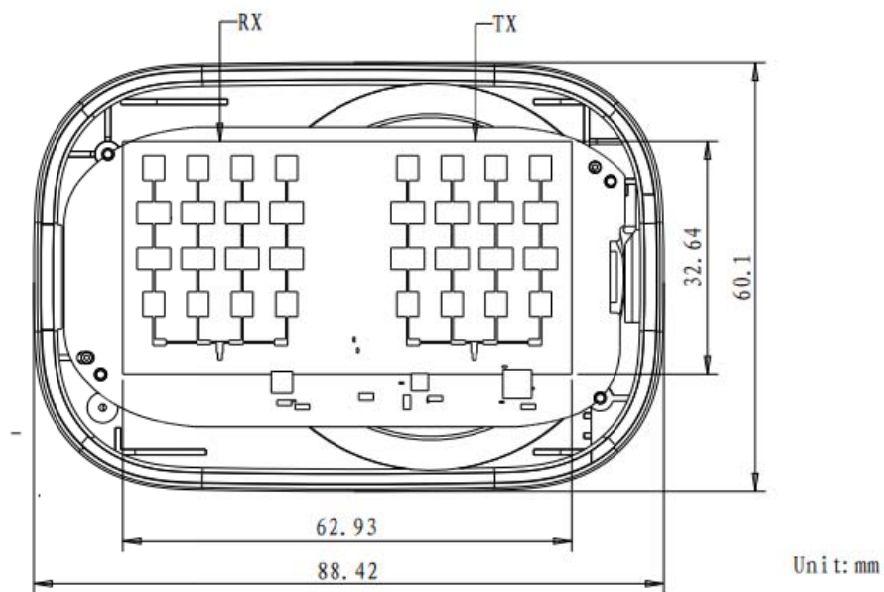
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1. Antenna Description

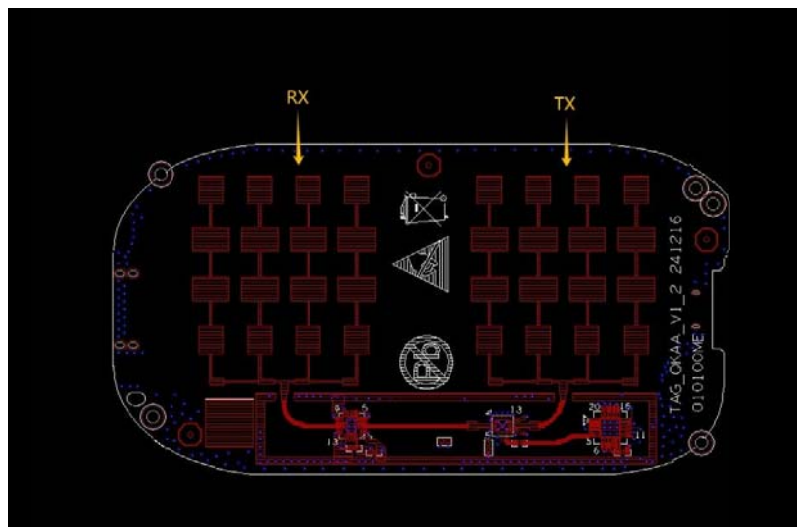
TAG-G1 Tx(Transmitter) antenna is a 4×4 patch array antenna with a gain of 14 dBi. Rx(Receiver) antenna is a 4×4 patch array antenna with a gain of 13.5 dBi. The frequency range of the antenna is 24 to 24.25 GHz.

2. Antenna Layout and Dimensions

Antenna area view in Mechanical dimensions:

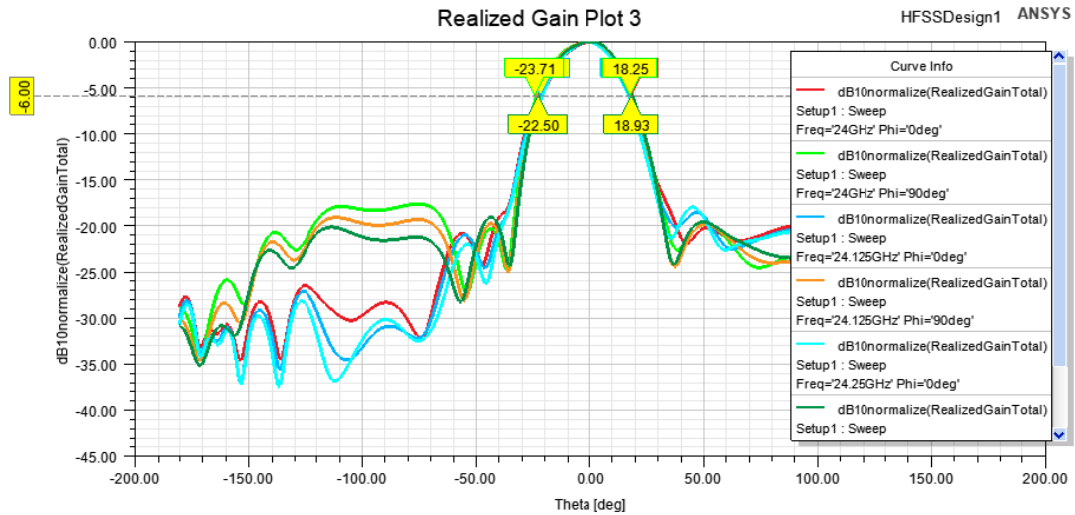


Antenna area view in PCB design:



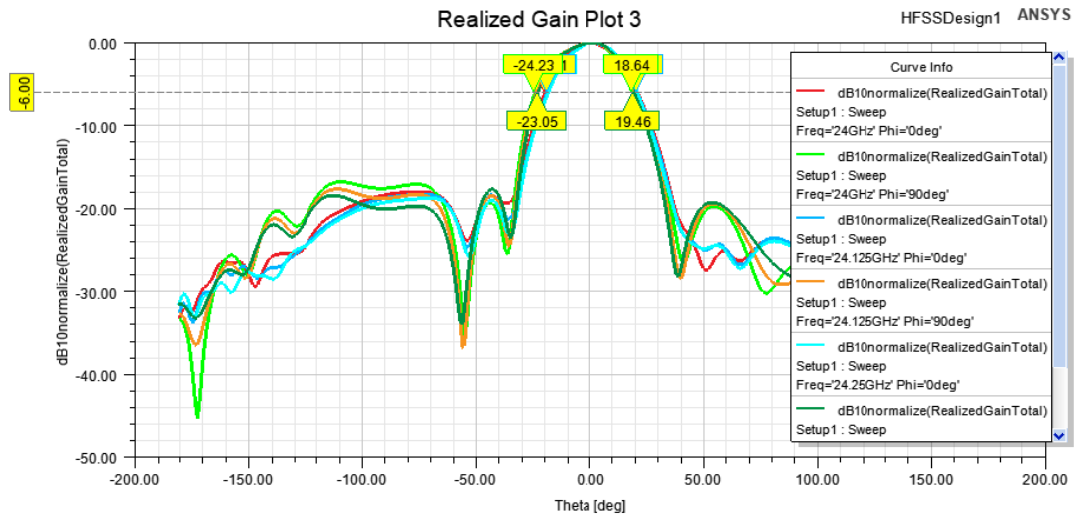
3. Antenna Simulation Report

Tx Antenna Simulation Result:

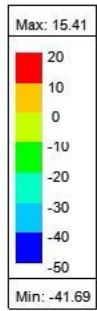


Realized Gain(dBi)	14
3dB Beam width: (Azimuth, Elevation) (deg)	29*(31)
6dB Beam width: (Azimuth, Elevation) (deg)	40*(42)

Rx Antenna Simulation Result:

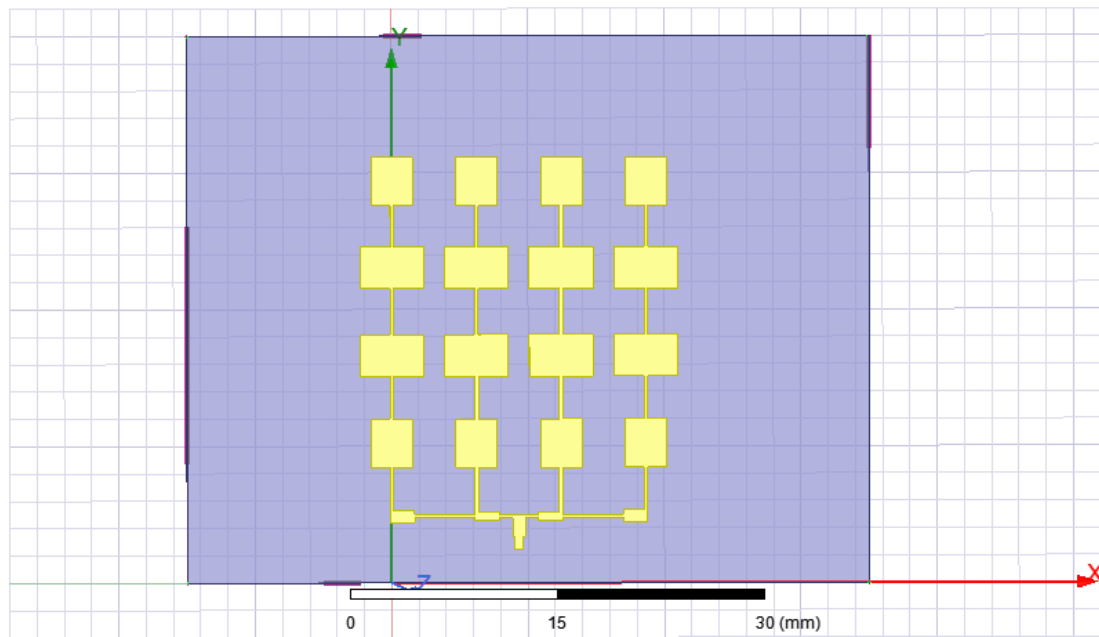
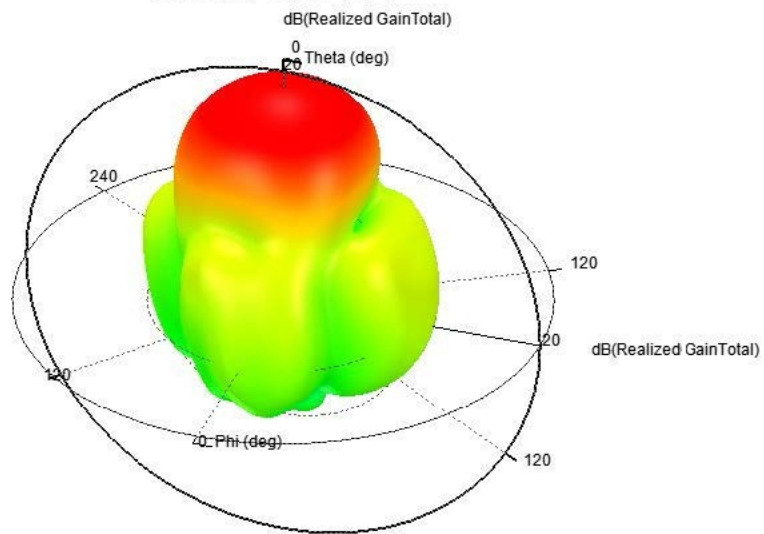


Realized Gain(dBi)	13.5
3dB Beam width: (Azimuth, Elevation) (deg)	30*(32)
6dB Beam width: (Azimuth, Elevation) (deg)	40*(43)



Realized Gain Plot 4

ANSYS



4. Antenna manufacturer name and address

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