

ATHLON Antenna Report



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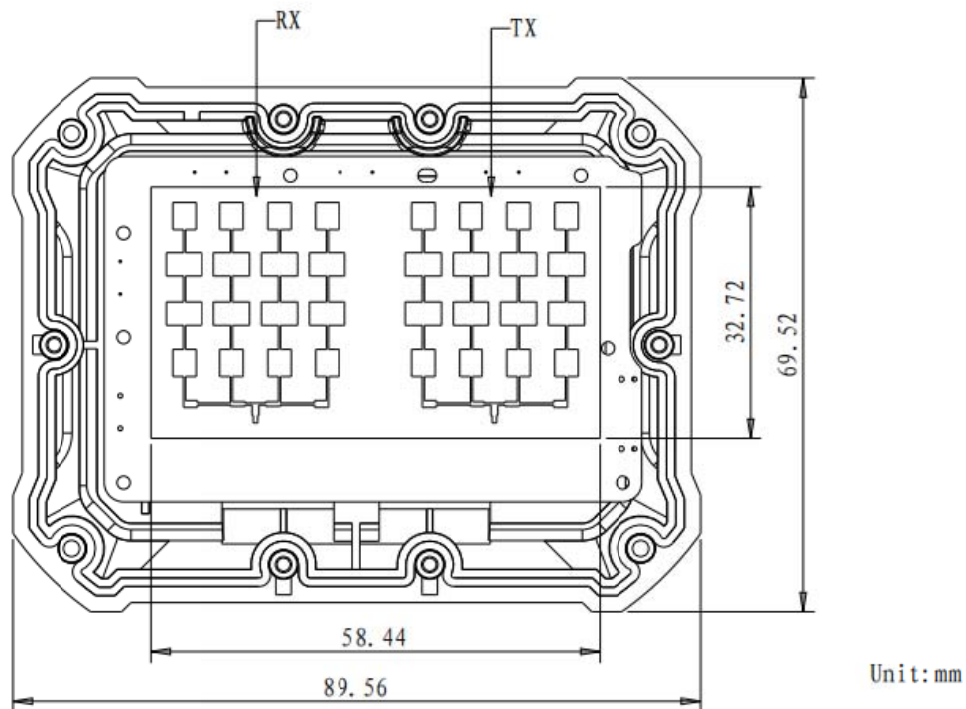
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1. Antenna Description

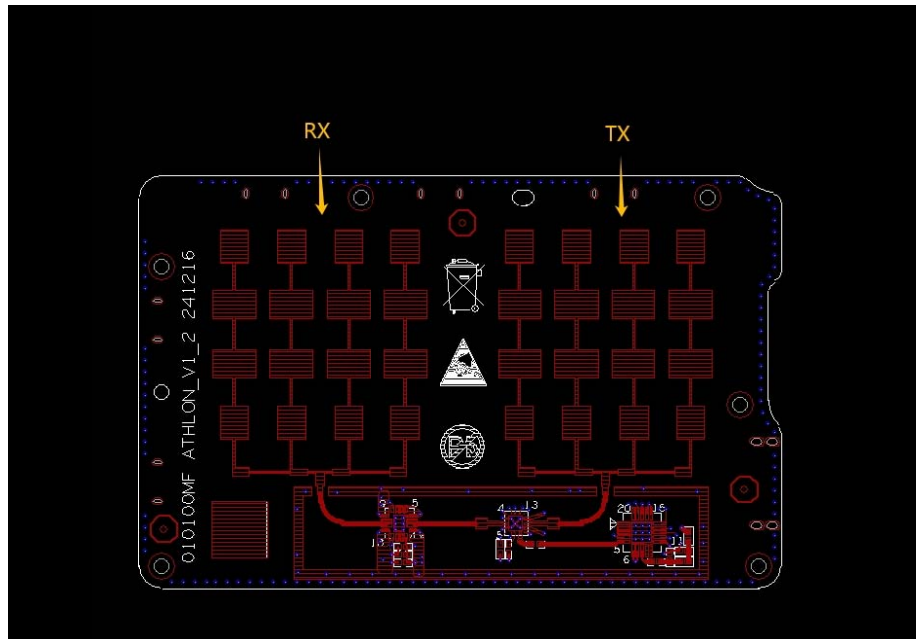
ATHLON Tx(Transmitter) antenna is a 4×4 patch array antenna with a gain of 14.7 dBi. Rx(Receiver) antenna is a 4×4 patch array antenna with a gain of 14.5 dBi. The frequency range of the antenna is 24 to 24.25 GHz.

2. Antenna Layout and Dimensions

Antenna area view in Mechanical dimensions:

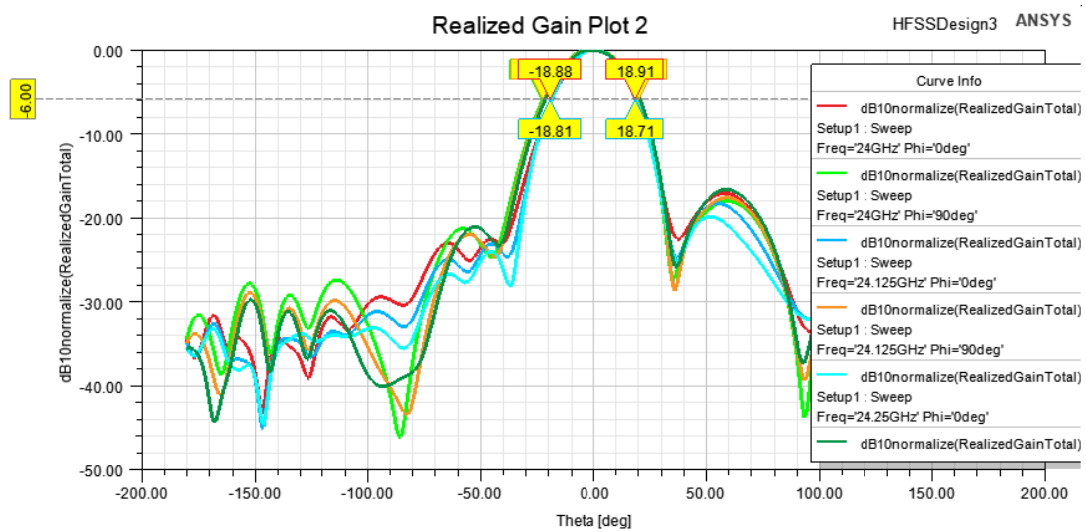


Antenna area view in PCB design:



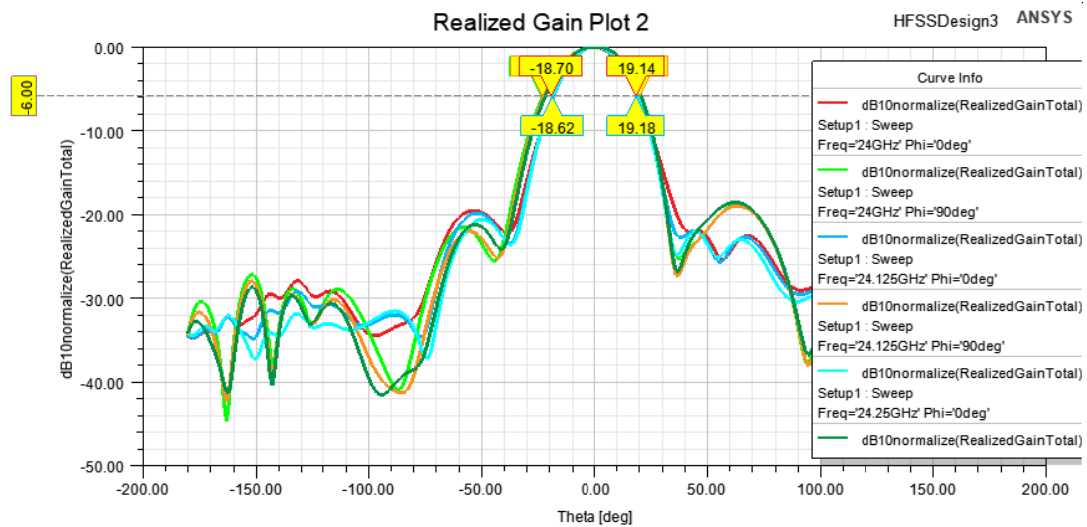
3. Antenna Simulation Report

Tx Antenna Simulation Result:



Realized Gain(dBi)	14.7
3dB Beam width: (Azimuth, Elevation) (deg)	27*(32)
6dB Beam width: (Azimuth, Elevation) (deg)	38*(43)

Rx Antenna Simulation Result:

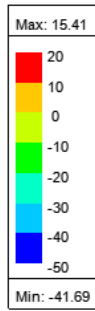


Realized Gain(dBi)	14.5
3dB Beam width:(Azimuth,Elevation) (deg)	27*(33)
6dB Beam width:(Azimuth,Elevation) (deg)	38*(43)

4. Antenna manufacturer name and address

Shenzhen Qiangda Circuit Co.,Ltd

Building A1, Fufa Industrial Park, Gaoxin Industrial Zone, Fuyuan 1st Road, Fuyong Town, Bao'an District, Shenzhen, Guangdong, China



Realized Gain Plot 4

ANSYS

