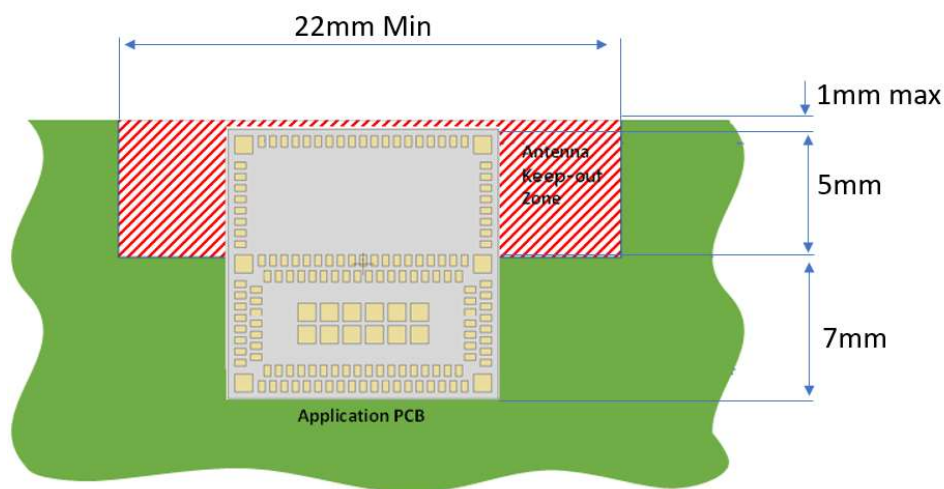


Antenna Keep-Out Zone

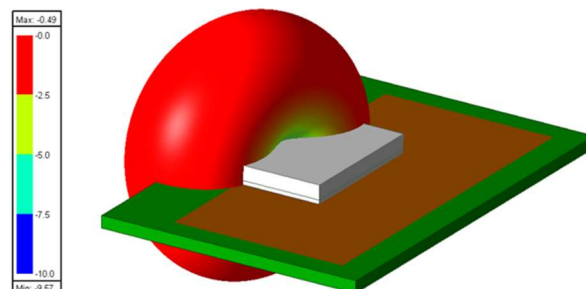
For optimal antenna performance, it is recommended to respect a metal exclusion zone to the edge of the board: no metal, no traces and no components on any application PCB layer except mechanical LGA pads.



2.4GHz Dual-band Antenna Performance

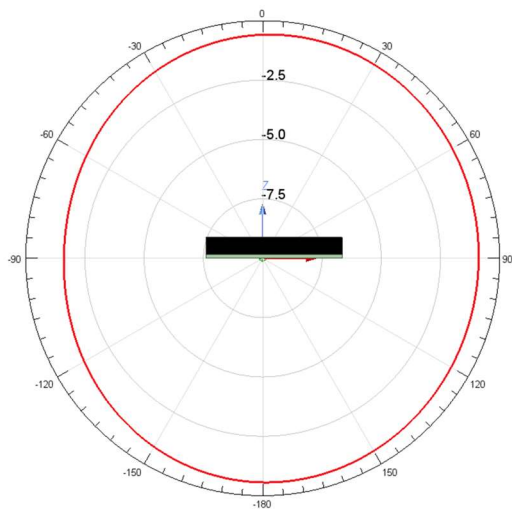
The internal antenna has a maximum gain of -0.5dBi @2.45GHz.

Note that the patterns shown below are for L/W ground aspect ratio that enable best impedance matching conditions combined with quasi-omnidirectional radiating features. Others aspect ratio and too large/small ground planes will tend to degrade impedance matching and to create less omnidirectional pattern.

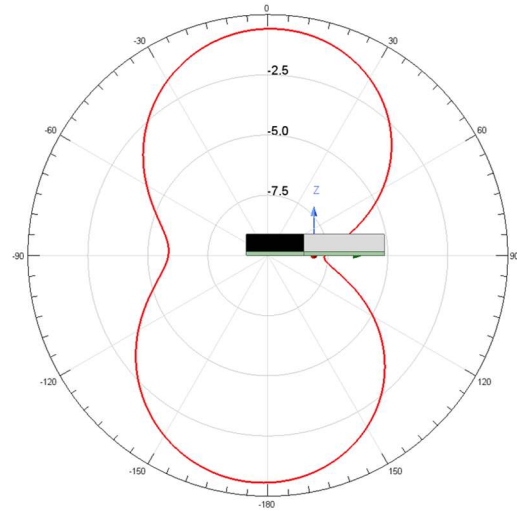




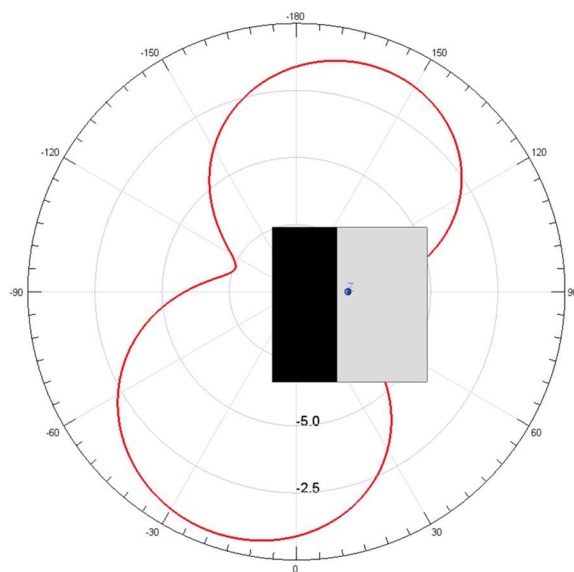
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3D radiation pattern @ 2.45GHz



2D radiation pattern (Θ , $\Phi = 0^\circ$)



2D radiation pattern (Θ , $\Phi = 90^\circ$)

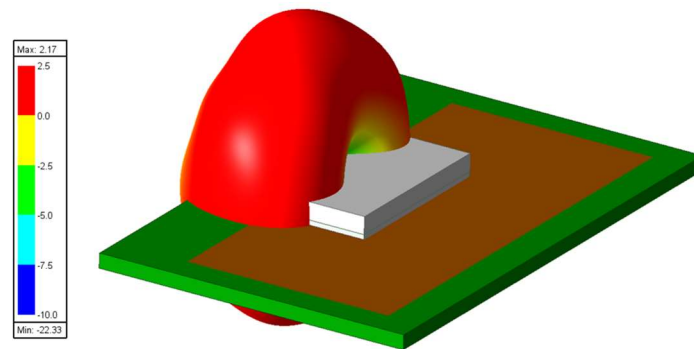


2D radiation pattern ($\Theta = 90^\circ$, Φ)

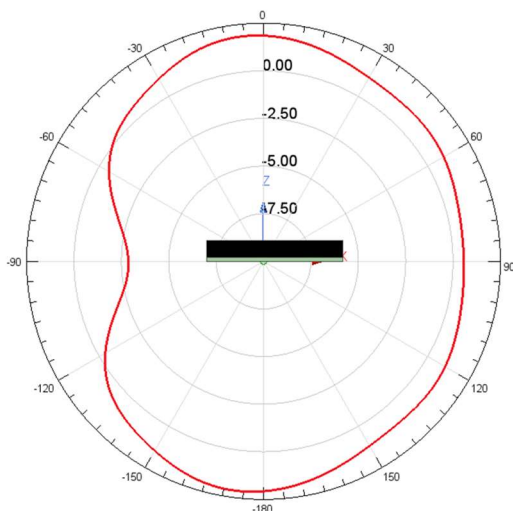
5GHz Dual-band Antenna Performance

The internal antenna has a maximum gain of 2.15 dBi @ 5.5GHz.

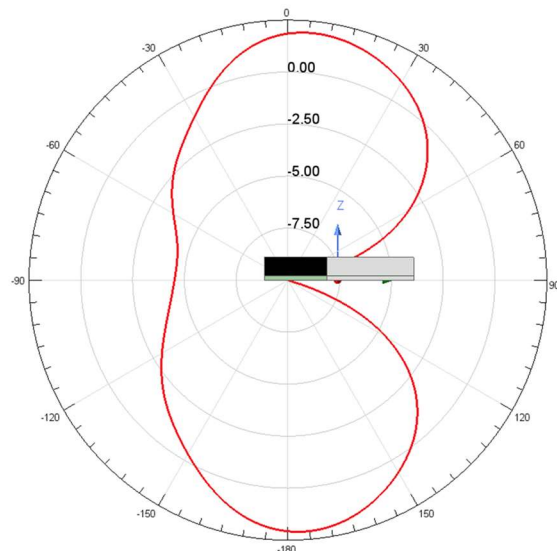
Note that the patterns shown below are for L/W ground aspect ratio that enable best impedance matching conditions combined with quasi-omnidirectional radiating features. Others aspect ratio and too large/small ground planes will tend to degrade impedance matching and to create less omnidirectional pattern.



3D radiation pattern @5.5GHz



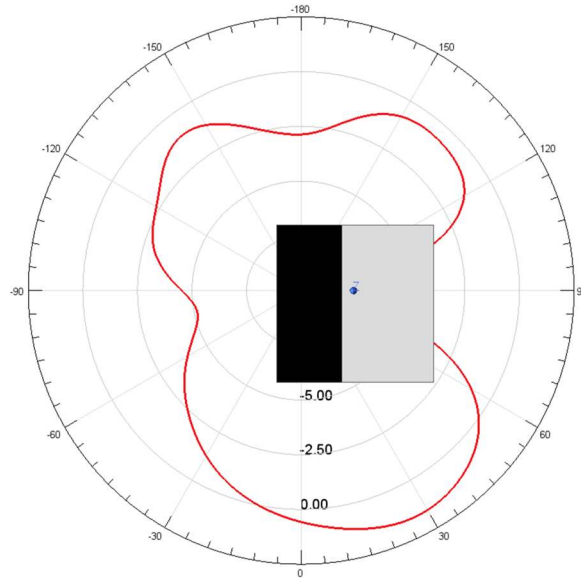
2D radiation pattern (Theta, Phi=0°)



2D radiation pattern (Theta, Phi=90°)



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2D radiation pattern ($\Theta=90^\circ$, Φ)