

# 2.4GHz Loop Chip Antenna



AANI-CH-0070

Request Samples



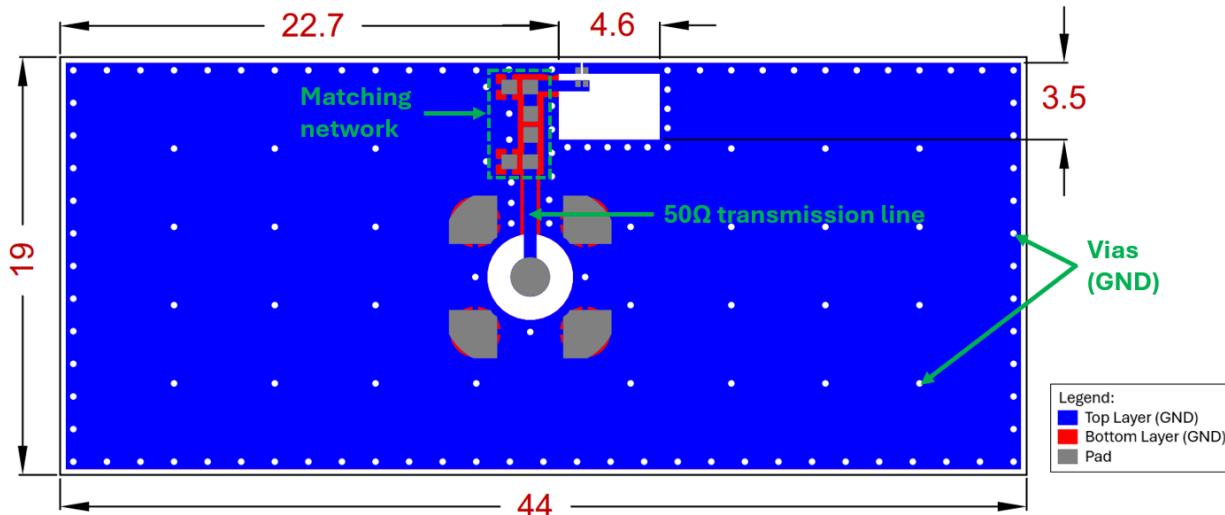
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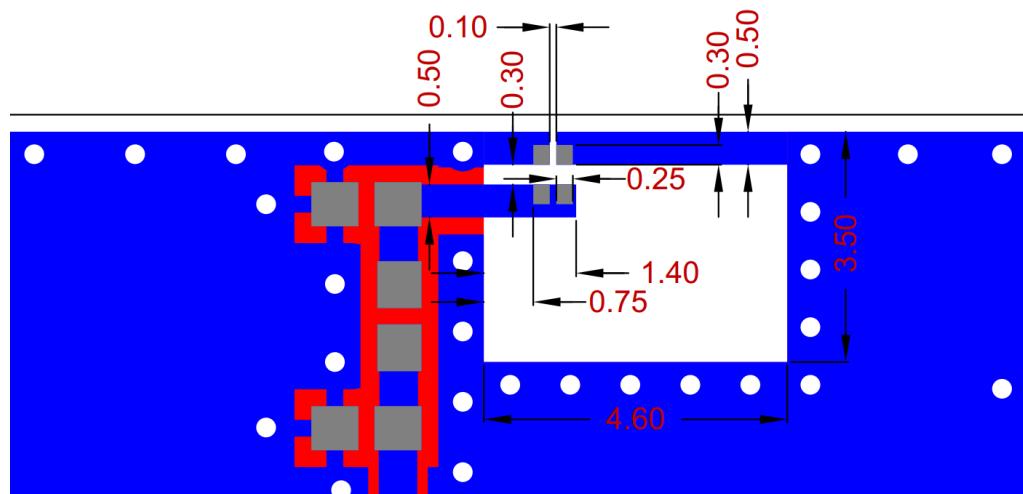
1.0 x 0.5 x 0.4 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Recommended PCB layout

If there are several layers in the PCB, there is an advantage to add vias for smooth interconnection of the ground areas to avoid splits in the ground plane. It is also important that the ground clearance is respected through all layers of the PCB. It is recommended to implement a matching network to optimize the antenna impedance in your application.



Detailed view of the antenna footprint and ground clearance area:



Unit: mm

## Transmission Line

The transmission line should be kept as short as possible and be designed to have a characteristic impedance of 50Ω. Abracon recommends using a Co-Planar Waveguide with Ground (CPWG), which dimensions can be derived by any trusted calculator, using the correct input for PCB materials and layer stack-up.



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