

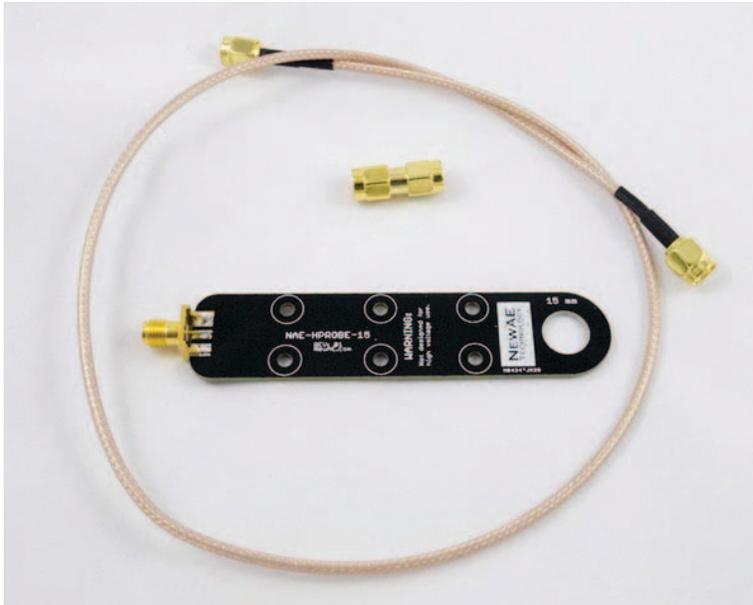


NewAE Technology Inc.  
newae.com

## ChipWhisperer® Embedded Security Analysis Tools Probes

# H-Field Probe, 15mm

## Product Datasheet



The NAE-HPROBE-15 is a simple Planar H-Field probe. It is constructed from a 4-layer PCB for low-cost construction yet reliable and repeatable measurements.

It includes several mounting holes that can be used to fasten it to an XY table or similar to sweep over a device surface.

The H-Field probe is suggested to be used with a low noise amplifier (LNA), especially if not connected to a high-sensitivity device such as the ChipWhisperer or a spectrum analyzer.

The probe comes with a SMA cable and a SMA coupler. A SMA to BNC or SMA to N adapter may be needed for your equipment.

## Product Highlights

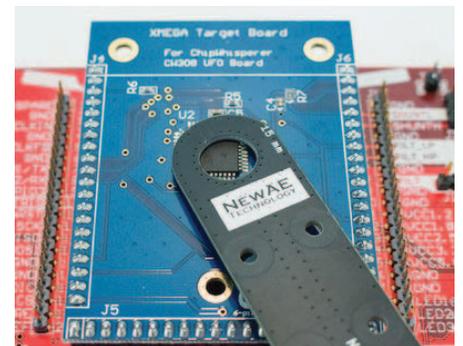
Super-simple design means a low-cost H-Field probe (finally).

SMA connector avoids needing to remember where you put that weird special cable.

Can mount a NewAE Technology Inc. LNA directly onto the probe to minimize noise introduced in cable.

Can be used for injecting EM faults in addition to measurement applications.

See documentation link for video example of power measurement using H-Field probe.



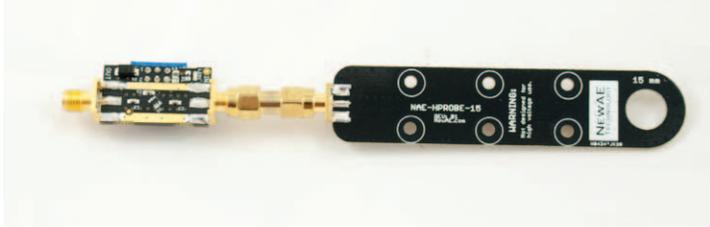
## Ordering Summary

NAE-HPROBE-15 H-Field Probe, 15mm diameter

## Product Links

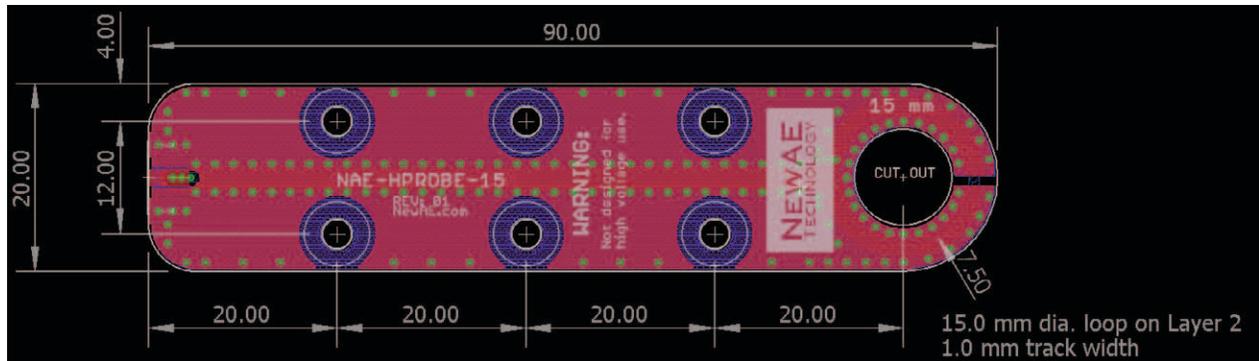
Full Documentation [https://wiki.newae.com/CW505\\_Planar\\_H-Field\\_Probe](https://wiki.newae.com/CW505_Planar_H-Field_Probe)

## LNA Usage



Note the Low Noise Amplifier (LNA) shown at left is NOT included. But this shows how the LNA can be mounted directly onto the probe using the included SMA coupler.

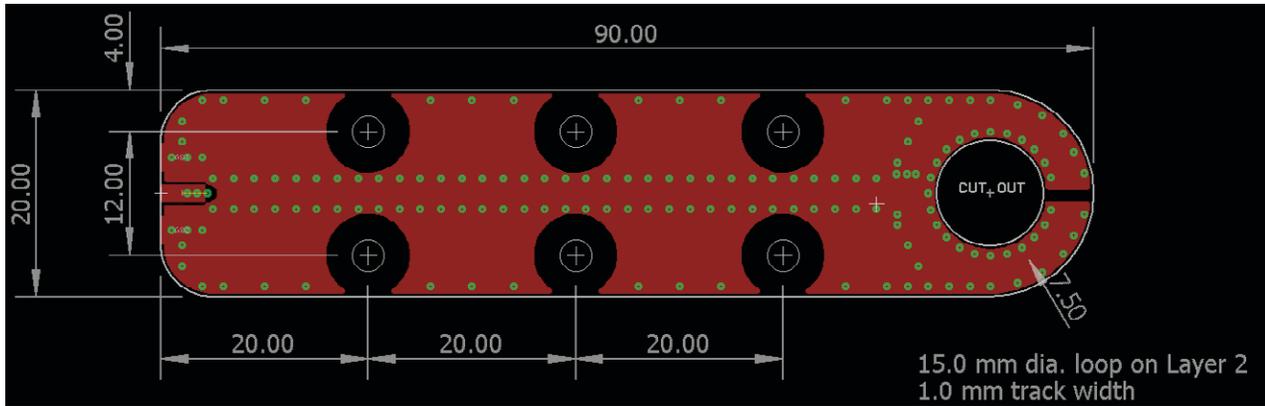
## Probe Construction Overview



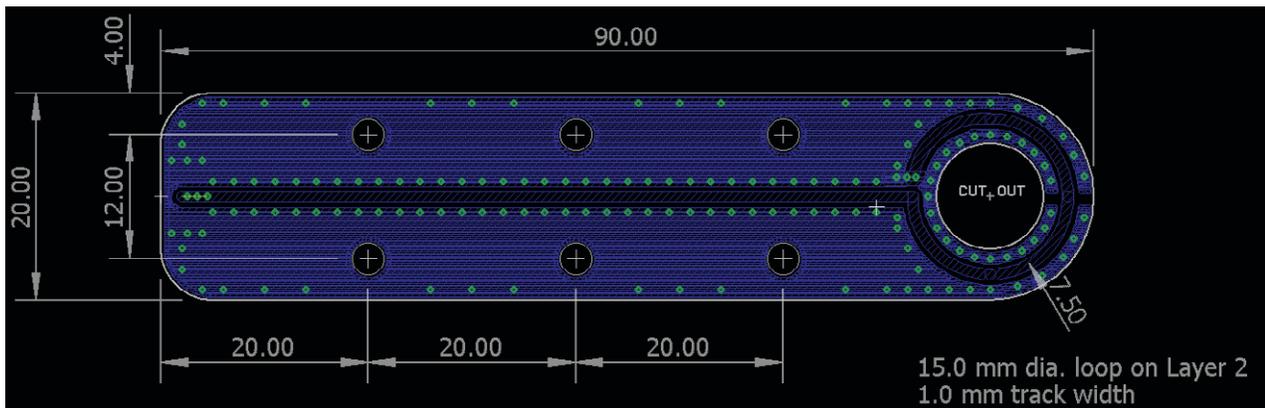
The above shows all four layers of the PCB used in the planar H-Field probe. The specific layers are shown on the following page.

<This area left awkwardly empty on purpose>

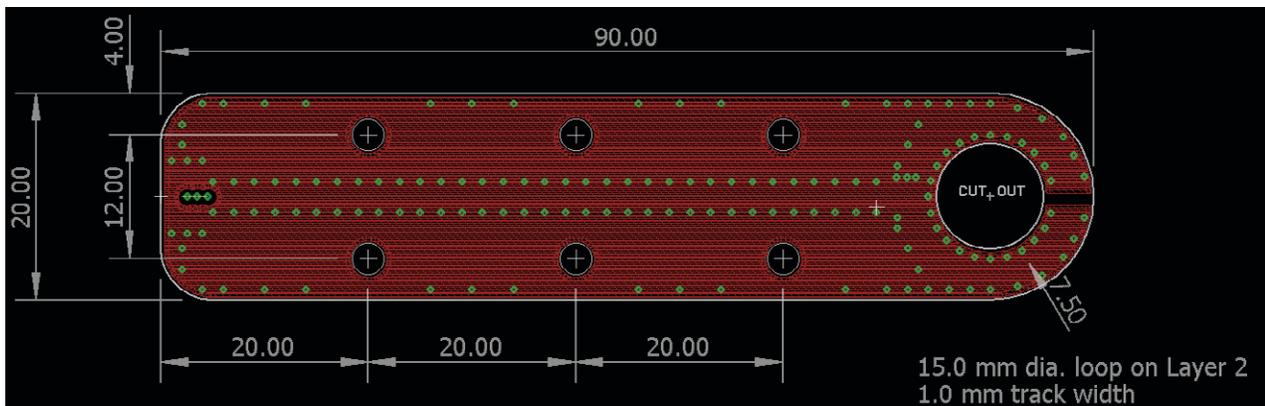
# Probe Construction Details



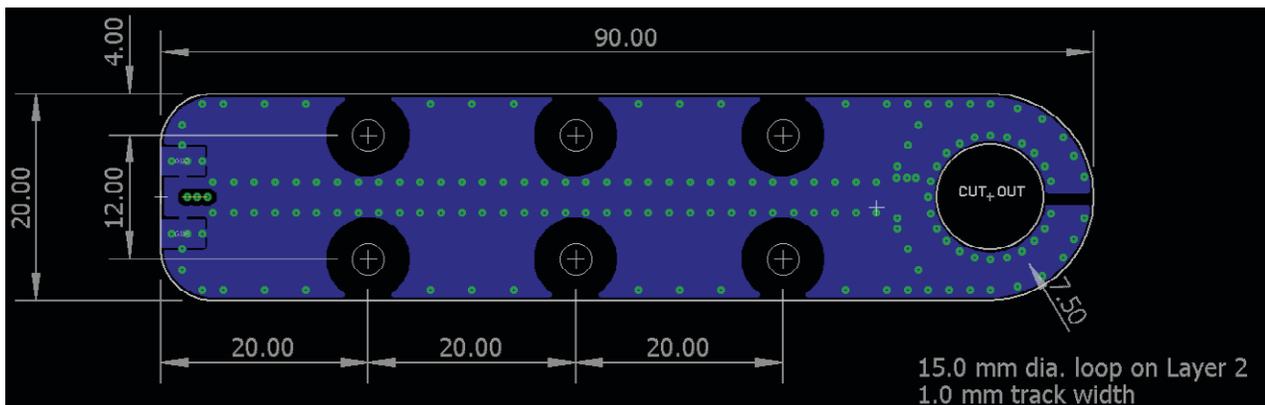
L1



L2



L3



L4

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