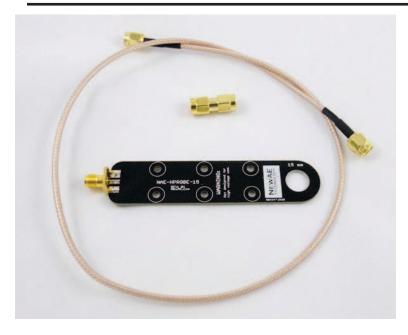


ChipWhisperer® Embedded Security Analysis Tools Probes

H-Field Probe, 15mm

NewAE Technology Inc. newae.com

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

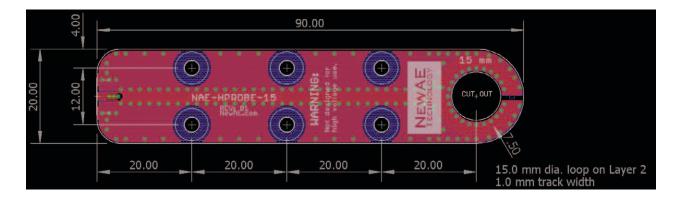
Full Documentation https://wiki.newae.com/CW505_Planar_H-Field_Probe

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.

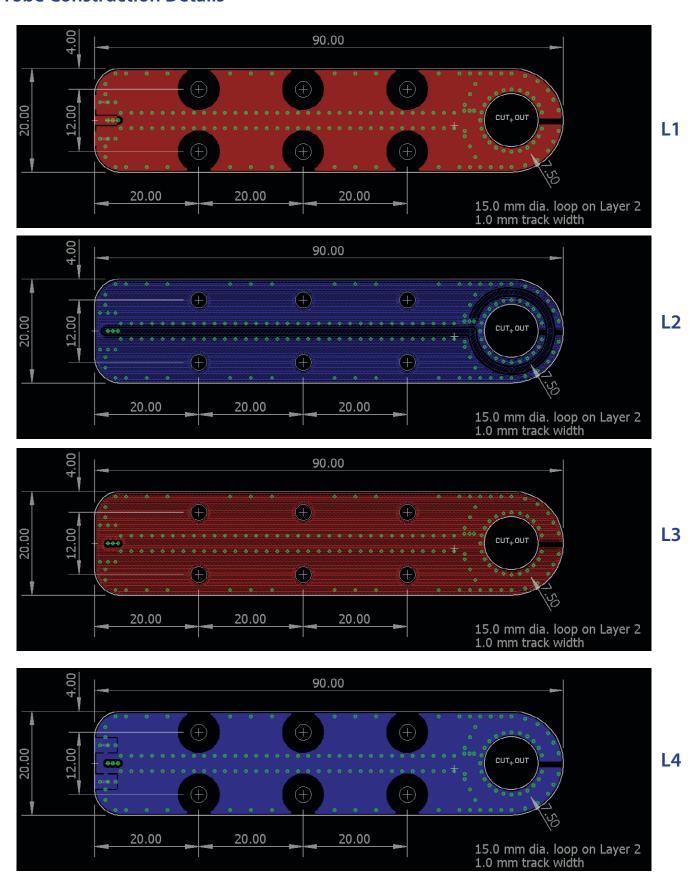
Probe Construction Overview



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.

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Probe Construction Details



NewAE Technology Inc. Your friendly embedded security arsonist.

newae.com

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