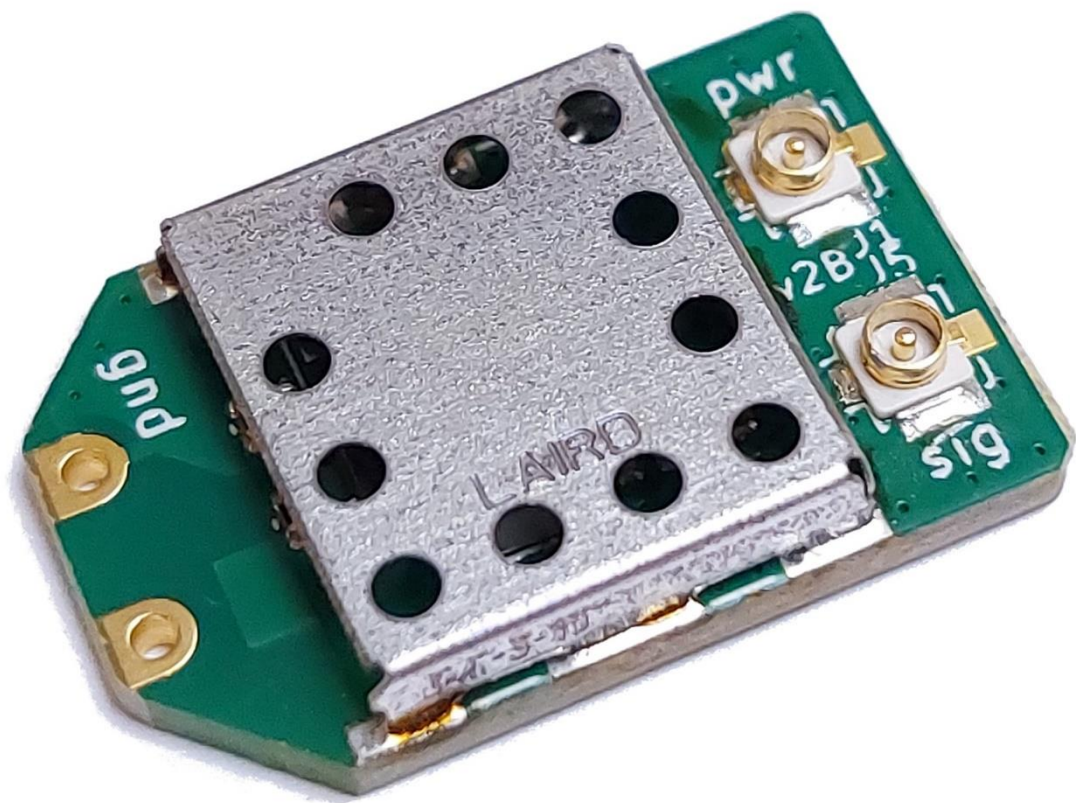


FETProbe V2

1.3 GHz active scope probe

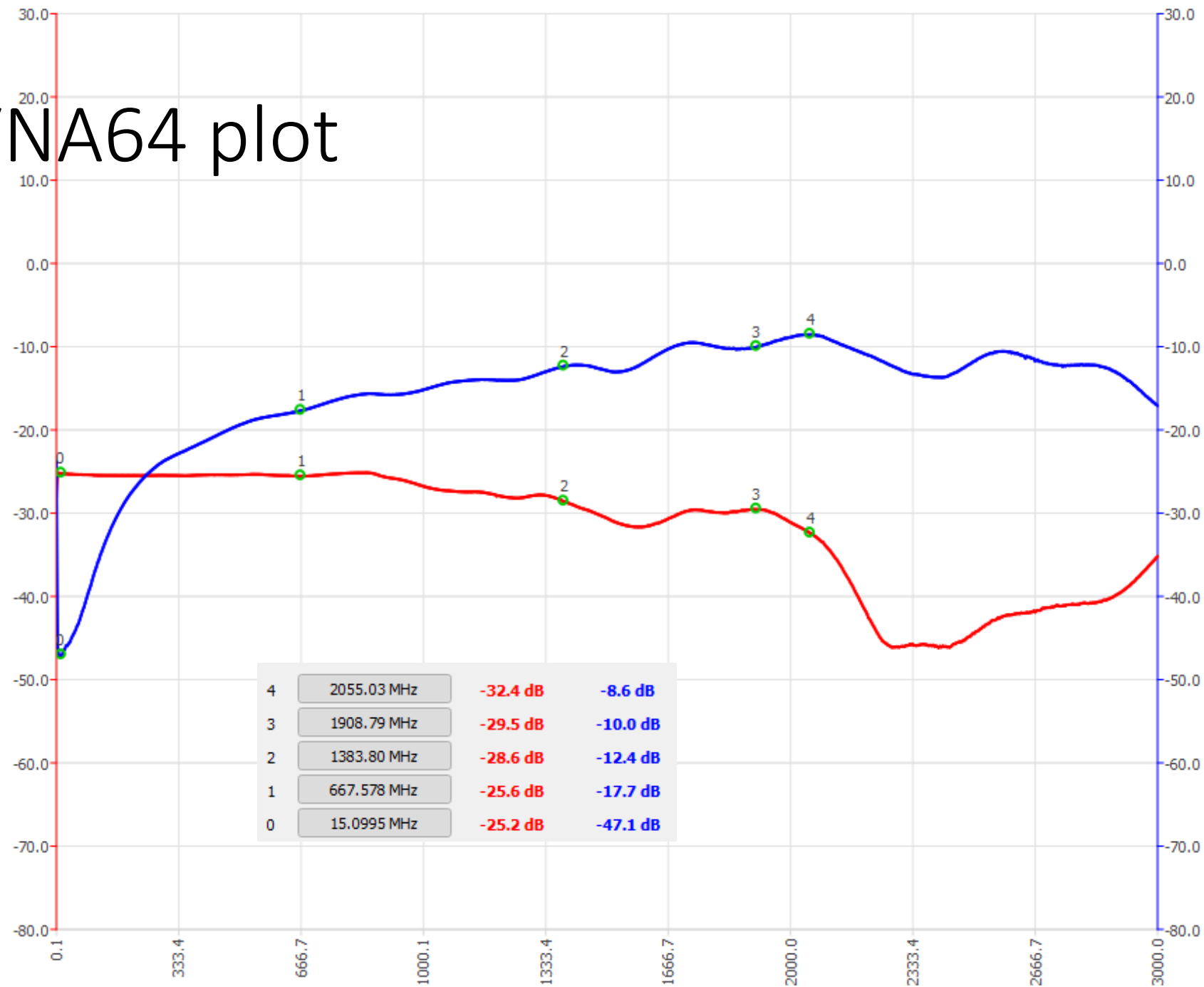
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Features

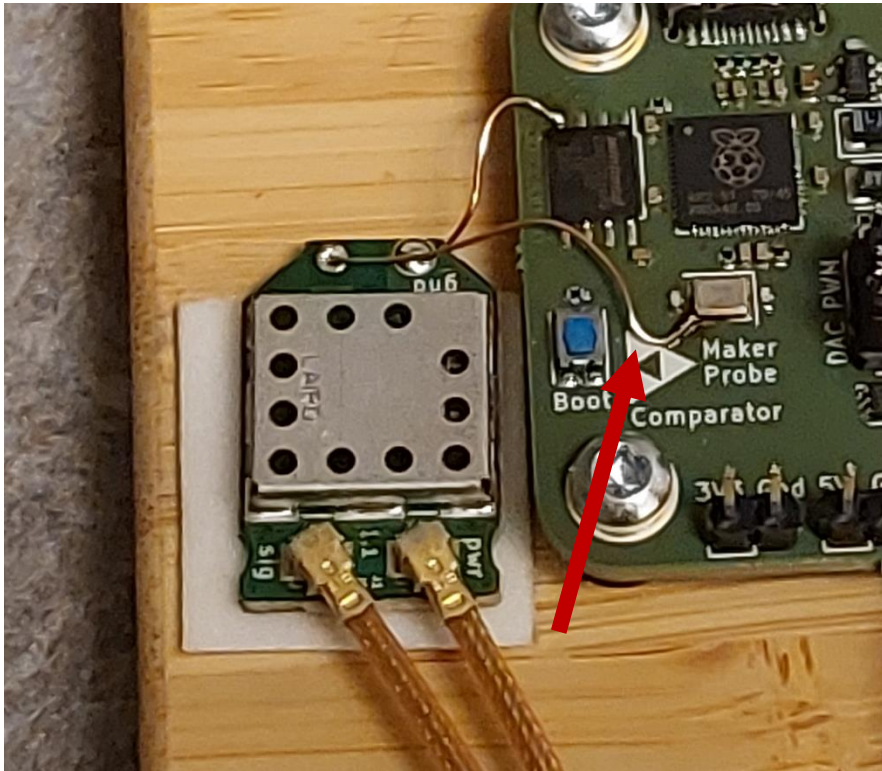
- AC coupled
- Bandwidth: 1.3 GHz (-3 dB)
- Minimum input frequency: 100 kHz
- Input capacitance: down to 0.3 pF (if correctly soldered to the device under test)
- Attenuation: 1:10 (1:20 into 50 Ohm load)
- Supply: 5...16 V through u.Fl, reverse voltage protected
- Output: 50 Ohm through u.Fl

LiteVNA64 plot

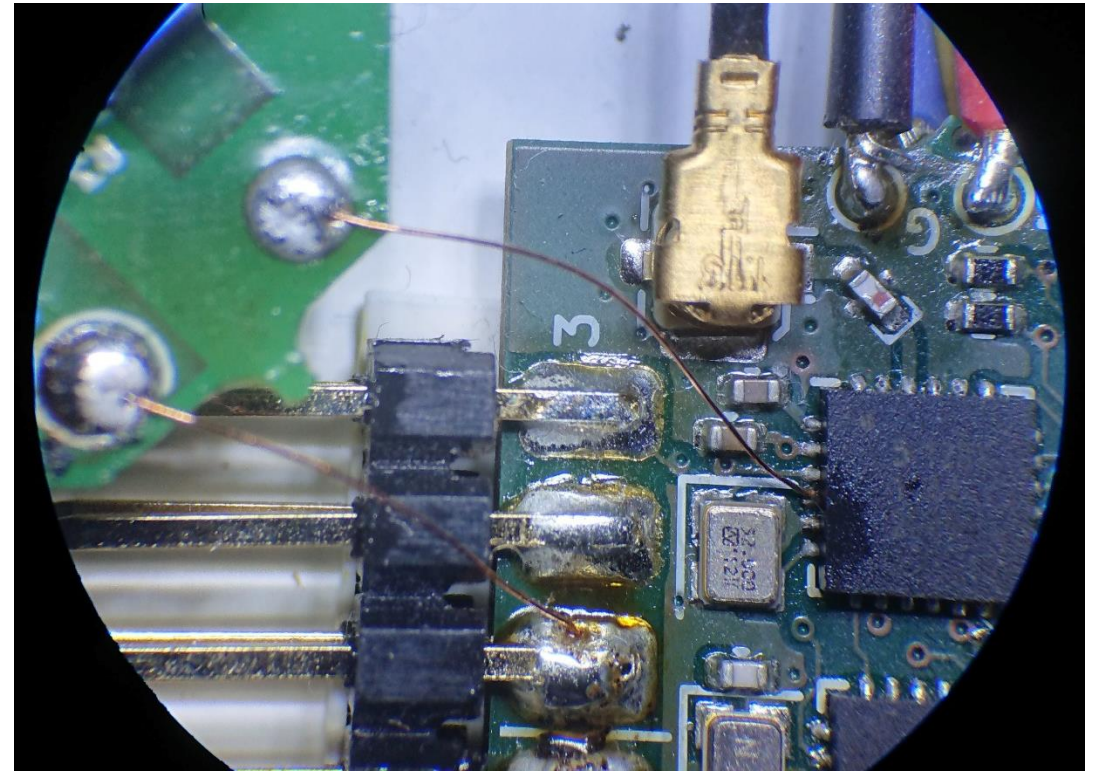


Soldering to the device under test

Input wires should be kept as short as possible to keep capacitance low. Aim for less than 10 mm. Avoid any ground plane directly beneath the probe.



This is already a bit too long,
but worked in this case.



This is better

Usage

- Mount the probe using thick double sided tape, or suspend it above the device under test
- Solder to the device under test (see above)
- Connect a u.FI cable from the probe's „sig“ connector to your test equipment (scope, VNA, ...) and terminate with 50 Ohm
- If applicable: set your scope to 1:20 attenuation
- Supply 5...16 V to the probe through the „pwr“ u.FI connector (USB->SMA dongle available)