

# P623

RF Current Probe 1 Ohm active



## Short description

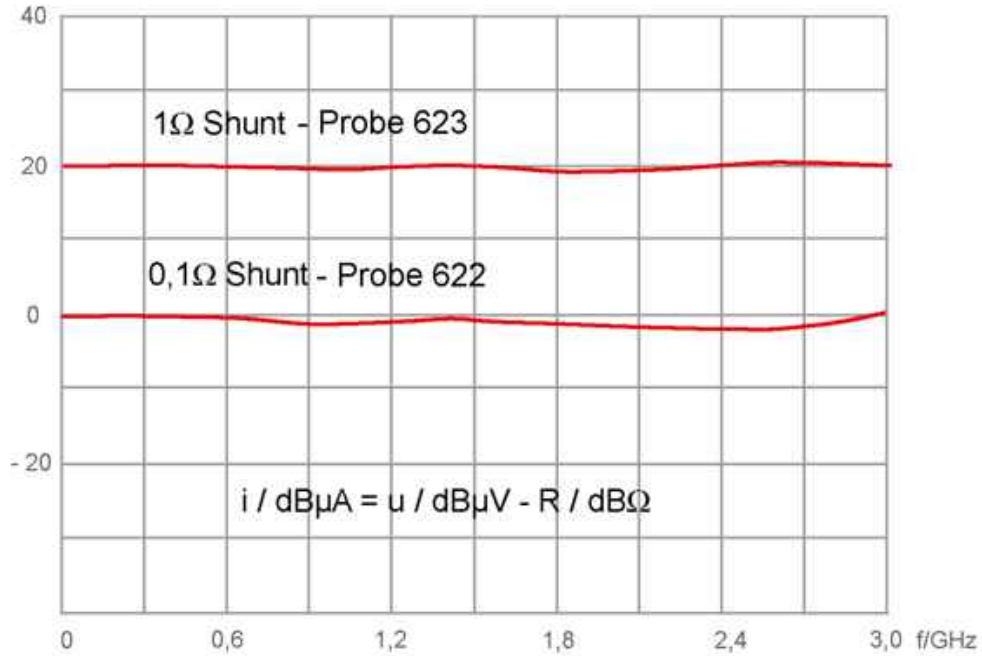
The P623 is a 1 ohm probe for direct measurement of high frequency (RF) current at IC pins. It is used to measure at supply pins (Vdd / Vss) and signal pins. The 1 ohm RF current probe has a pin contact with which IC pins can be separately contacted and measured.

## Technical parameters

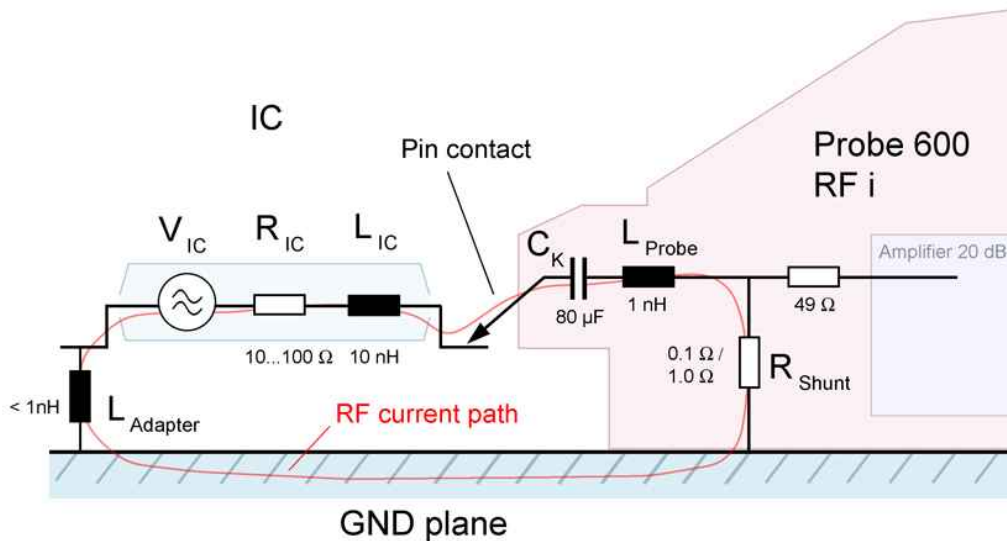
|                                  |                   |
|----------------------------------|-------------------|
| Frequency range                  | 9 kHz ... 3 GHz   |
| Coupling capacity                | 8 $\mu$ F         |
| Transfer factor voltage          | 20 dB             |
| Ammeter /current probe           |                   |
| -1 dB compression point (output) | 120 dB $\mu$ V    |
| IP3                              | 134 dB $\mu$ V    |
| Measurement output               | 50 $\Omega$ , SMB |
| Noise figure                     | 3.7 dB            |
| Shunt                            | 1 $\Omega$        |
| Current correction factor R      | 20 dB $\Omega$    |
| Inductance                       | 1 nH              |
| Supply voltage                   | 12 V / DC         |
| Max. power dissipation           | 2.5 W             |

## Frequency response

Übertragungsfaktor R / dBΩ



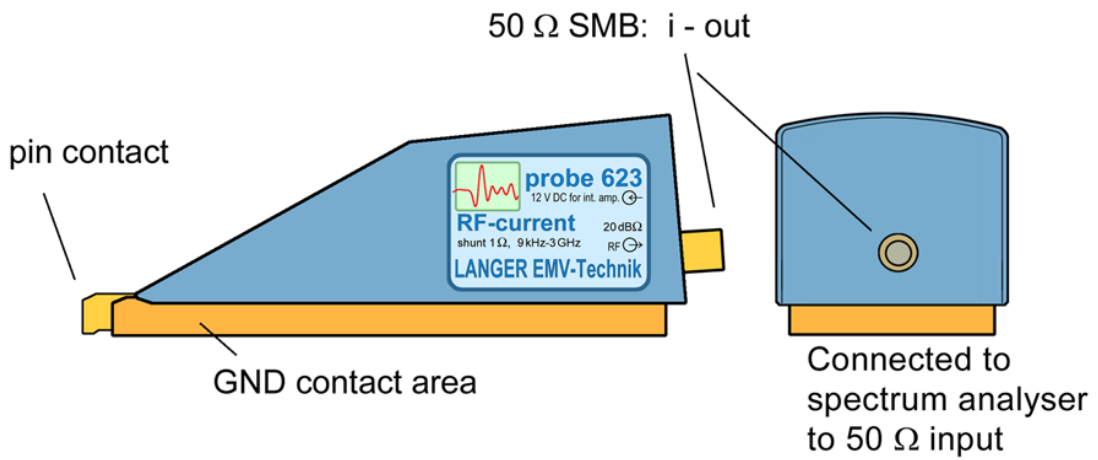
## Equivalent circuit



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Design, view 1



Application with P623

