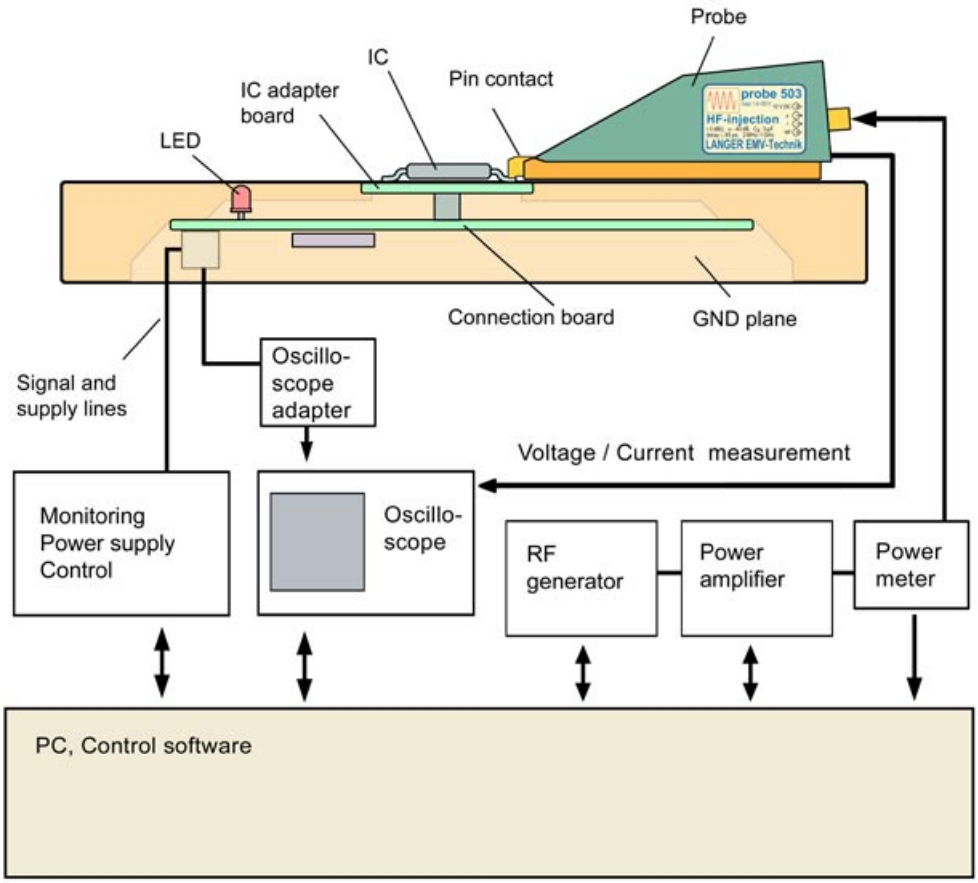
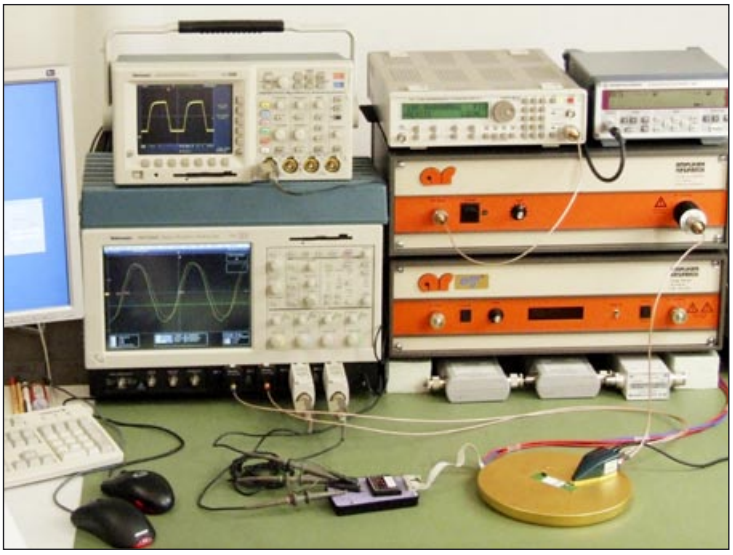
**Measurements according standard:**
**- IEC 62132-4 (DPI)**



Measurement set-up consisting of:

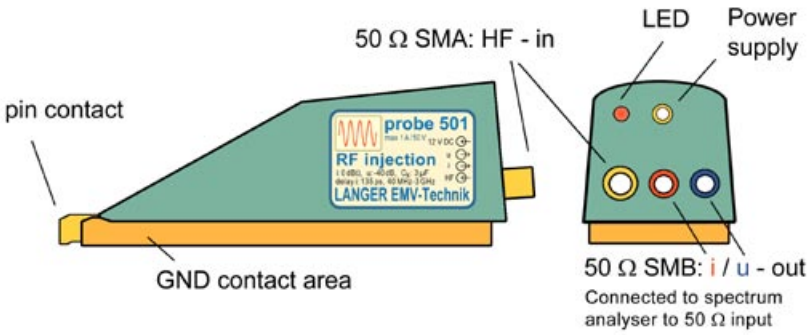
- Probe
- RF generator
- Power amplifier
- GND plane
- Connection board CB 0708
- PC with „AutoMeasure“ software

“

**RF injection probe**

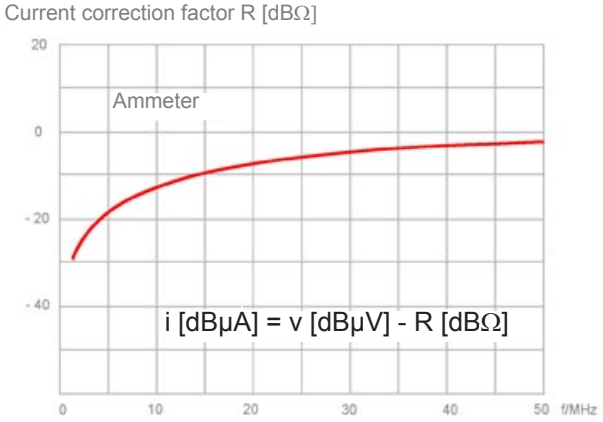
**Application:**
RF immunity test of an IC pin.

**Properties:**
- RF injection (DPI) with an external power amplifier through the connected probe direct to the IC pin
- integrated voltmeter and ammeter during the disturbance
- a software calculates the injected power direct at the IC pin and its impedance

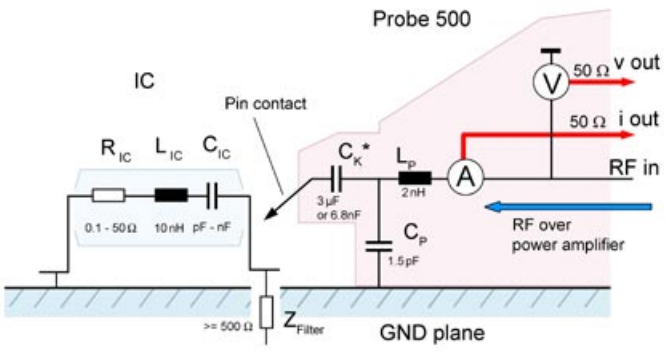



| | Probe 501 | Probe 502 |
|---|---|---|
| **Voltmeter** | **without amplifier** | **with amplifier** |
| Transfer factor $V_{out}/V_{in}$ | -40 dB | 0 dB |
| Frequency range | 16 kHz – 3 GHz | 16 kHz – 3 GHz |
| Maximum voltage | 40 $V_{eff}$ | 1 $V_{eff}$ |
| -1 dB compression point | | 120 dBµV |
| IP3 | | 134 dBµV |
| Noise figure | | 4.5 dB |
| **Ammeter** | with amplifier | |
| Frequency range | 2 MHz – 3 GHz | |
| Current correction factor R 2 MHz – 40 MHz | see figure below | |
| 40 MHz – 3 GHz | 0 dBΩ (1 V/A) | |
| Delay current to voltage | 135 ps | |
| Maximum current | 1 A | |
| -1 dB compression point | 120 dBµV | |
| IP3 | 134 dBµV | |
| Noise figure | 4.5 dB | |
| Coupling capacitance | 3 µF or 6.8 nF* | |
| Maximum power transmission | 30 W | |
| Supply voltage | 12 V / DC | |

**Characteristic of ammeter up to 50 MHz**




**Equivalent circuit (DPI - Norm $C_K$ = 6.8 nF)**

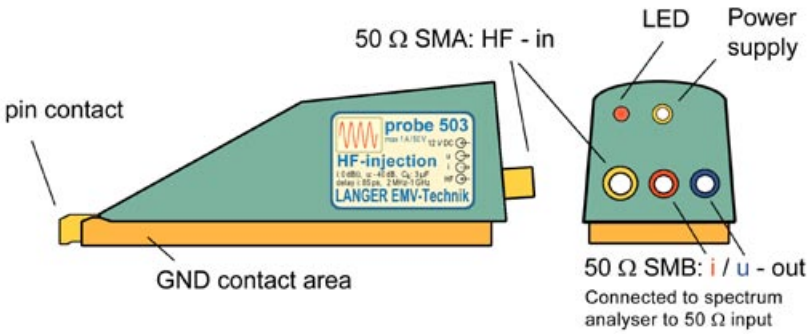



* $C_K$ order at buyer's option

**RF injection probe**

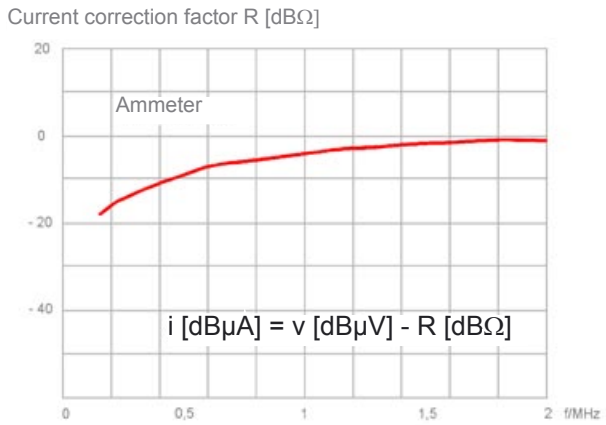
**Application:**
RF immunity test of an IC pin.

**Properties:**
- RF injection (DPI) with an external power amplifier through the connected probe direct to the IC pin
- integrated voltmeter and ammeter during the disturbance
- a software calculates the injected power direct at the IC pin and its impedance

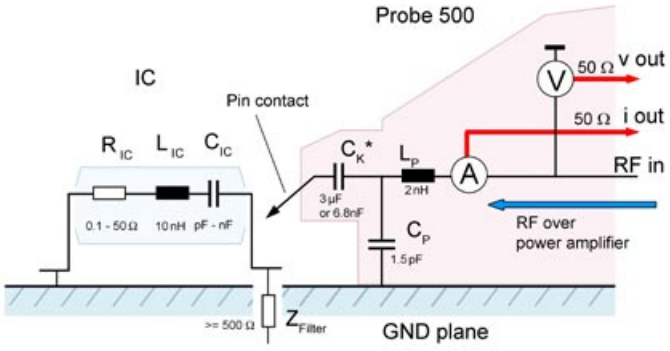



| | |
|---|---|
| **Voltmeter** | **without amplifier** |
| Transfer factor $V_{out}/V_{in}$ | -40 dB |
| Frequency range | 16 kHz – 3 GHz |
| Maximum voltage | 50 $V_{eff}$ |
| **Ammeter** | with amplifier |
| Frequency range | 200 kHz – 1.5 GHz |
| Current correction factor R 200 kHz – 2 MHz | see figure below |
| 2 MHz – 1.5 GHz | constant value depending on probe (0 to -5 dBΩ) |
| Delay current to voltage | approx. 240 ps |
| Maximum current | 1 A |
| -1 dB compression point | 120 dBµV |
| IP3 | 134 dBµV |
| Noise figure | 4.5 dB |
| Coupling capacitance | 3 µF or 6.8 nF* |
| Maximum power transmission | 30 W |
| Supply voltage | 12 V |

**Characteristic of ammeter up to 2 MHz**




**Equivalent circuit (DPI - Norm $C_K$ = 6.8 nF)**




* $C_K$ order at buyer's option or external limited