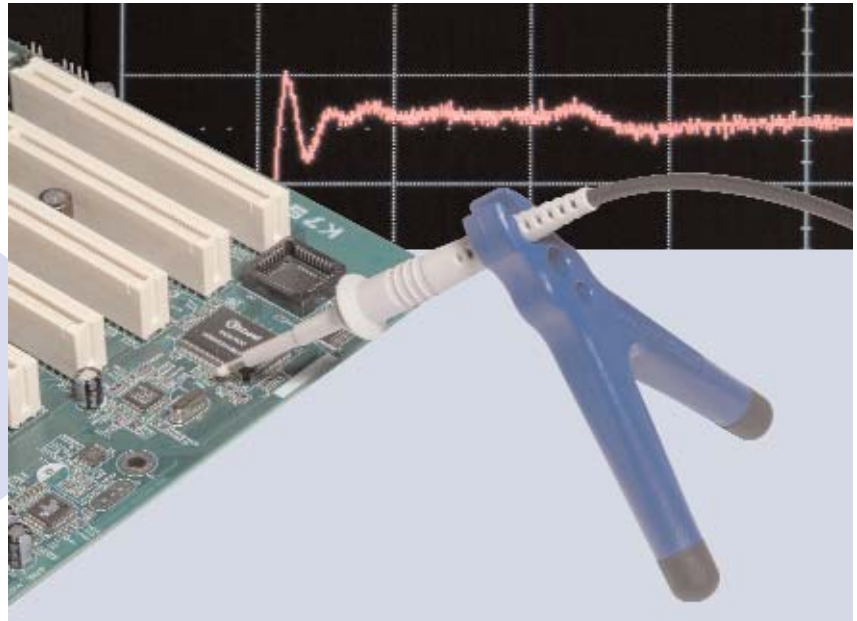


2.5 mm Scope Probe Solution

Passive Probes with System Bandwidth up to 1.5 GHz

- Small Size Ø 2.5 mm at Probe Tip
- Low Input Capacitance
- Optimized HF connecting Accessories
- New IC contacting System



New Standards

The PML passive probe family sets new standards in "High performance" probing up to 1.5 GHz system bandwidth. The compact design with only 2.5 mm housing diameter at the probe tip is ideal for measurements of SMT components. It provides a much better visibility over the device under test as conventional 5 mm probe housing designs. A true PMK GmbH feature the exchangeable probe tip is also available for the PML series. The gold plated spring contact or the rigid tip are only 0.5 mm in diameter. The tip replacement is easy and gives the engineer the best choice. These great advantages and over 30 accessories parts for the new PML probe series will offer various configuration to solve most adaption desires.

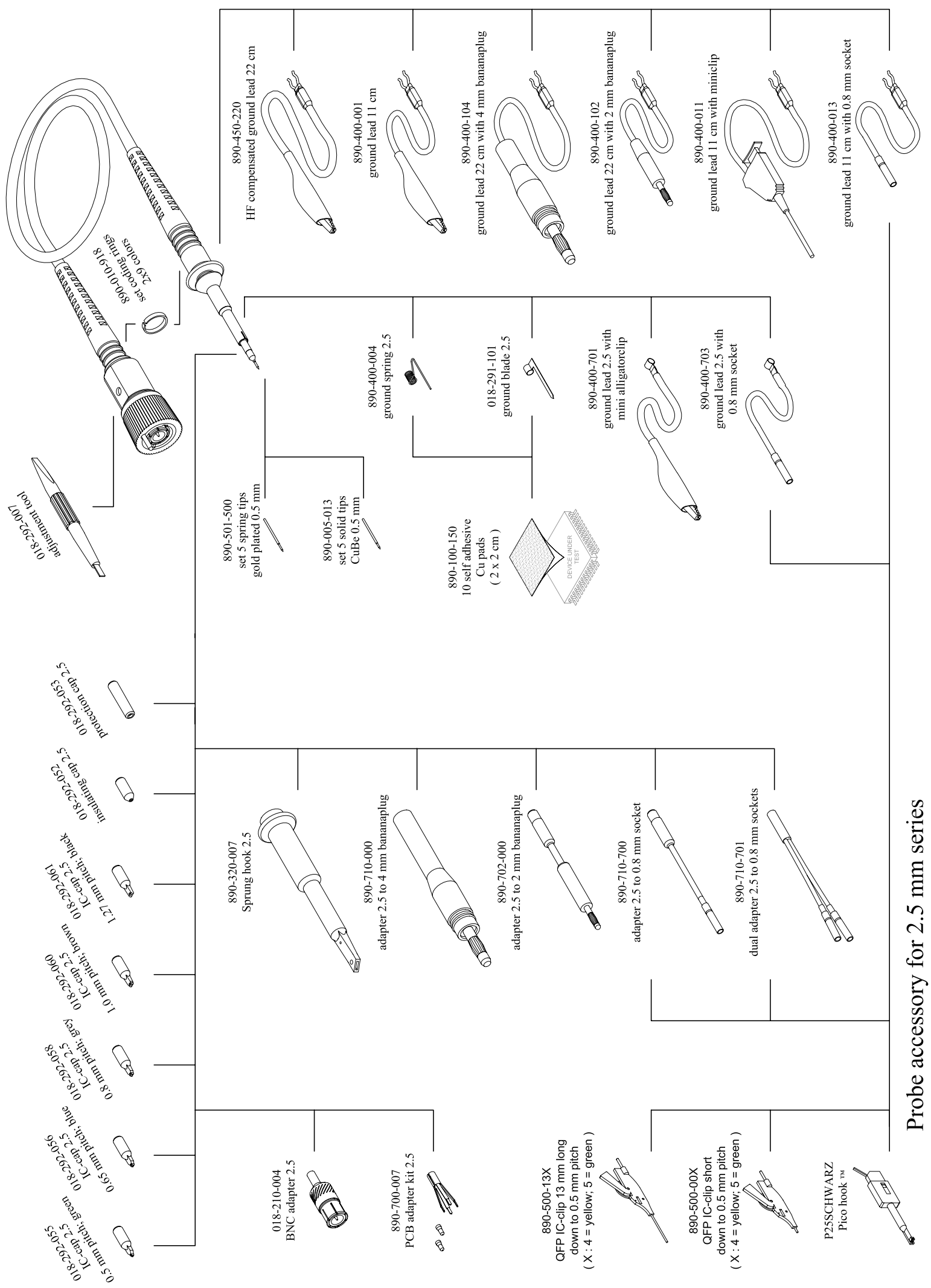
Low Input Capacitance

The standard PML ±10 model with an input capacitance less than 9.5 pF is most appropriate for measurements of HF signals where a too high load of the measuring point can falsify the result and with particularly sensitive SMT elements it can result an "Over load". The model ±20 was designed to reduce the input capacity of the measuring system (oscilloscope and probe) to less than 5.6 pF. This is particularly interesting for applications where the cost of an active probe system is exceeding the usage, but a sufficient high output amplitude for a 20:1 divider is available. In this case the resolution is not too narrow and the measurement does not go under into noise.

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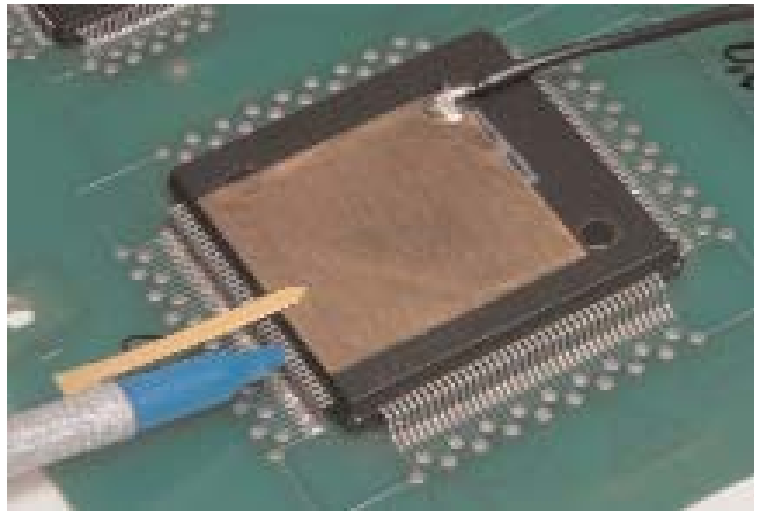


Probe accessory for 2.5 mm series

PML Series

True signal acquisition on IC's

Particularly for HF measurements on IC's, a short as possible ground connection is recommendable. Due to long ground leads most conventional adaptions bring additional inductance and resonances into the measurement which will result in false or inaccurate readings. The innovative IC contacting system of the PML with 5 different IC adapters from 1.27 to 0.5 mm pitch in combination with the intelligent "Ground Blade" and IC ground copper pad is the ideal solution for shortcircuit-safe, reproducible, and authentic measurements.



Safety short circuit measuring at ICs

More Accessories

The PCB adapter "printed circuit board" sets an exact HF measure point on any PCB design. The PCB adapter is soldered firmly onto the circuit board and offers to the user a fast and stable contact point.

In case a long ground lead connection is not avoidable we recommend in order to reduce the effect of "Ringring" PMK GmbH known HF-compensated ground lead. This will reduce the "Ringing" effect and impressively enhance your measurement. Find the complete accessories range for the new PML probe series inside this brochure.



"Hands-free-probing" with PCB Adapter

Spezifikationen PML Series

2.5 mm Scope Probe System

High Z Types

Part No.	Type	Oscilloscope-Impedance	System Bandwidth*	Ratio	Input C	Input R Max.	Input Voltage**
855-711-A00	PML 711	1 M Ω	> 500 MHz	+10	< 9,5 pF	10 M Ω	300 V rms CATII
855-711-A01	PML 711-RO	1 M Ω	> 500 MHz	+10	< 9,5 pF	10 M Ω	300 V rms CATII
855-721-000	PML 721	1 M Ω	> 500 MHz	+20	< 5,6 pF	20 M Ω	300 V rms CATII
855-721-004	PML 721-RO	1 M Ω	> 500 MHz	+20	< 5,6 pF	20 M Ω	300 V rms CATII
855-701-000	PML 701	1 M Ω	> 30 MHz	+1	< 39 pF + Oszi	—	55 V rms CATII

Low Z Types

Part No.	Type	Oscilloscope-Impedance	System Bandwidth*	Ratio	Input C	Input R Max.	Input Voltage**
875-751-000	PML 751	50 Ω	> 1,5 GHz	+10	< 2 pF	500 Ω	12 V DC inkl. AC pk
875-751-001	PML 751-RO	50 Ω	> 1,5 GHz	+10	< 2 pF	500 Ω	12 V DC inkl. AC pk
875-791-000	PML 791	50 Ω	> 1,5 GHz	+100	< 2,6 pF	5 k Ω	30 V DC inkl. AC pk
875-791-002	PML 791-RO	50 Ω	> 1,5 GHz	+100	< 2,6 pF	5 k Ω	30 V DC inkl. AC pk

Cable length 1.3 m, Compensation range for types + 10 and + 20: 7-25 pF, RO = Read-out

* Reference: LeCroy Waverunner 6000, Note: Reference list for other device types available

** EN 61010-031: 2002

Specifications are subject to change without notice.

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