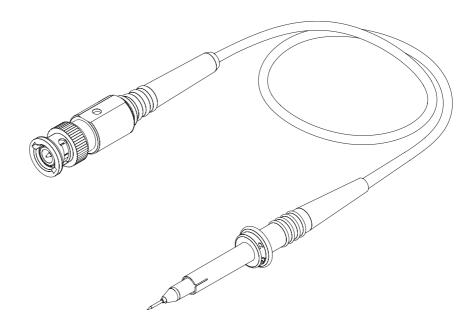


PMM 511A

High impedance passive probe

Features:

- CeramCoreTM hybrid probe
- Coaxial design
- Interchangeable spring contact tips 0.8 and 0.38 mm diameter
- New IC contacting system for 0.8 to 1.27 mm pitch



The PMM 511A is a 500 MHz, miniature 10:1 passive probe designed for instruments having 1 $M\Omega$ input resistance. This probe is recommended for high performance probing applications and is adjustable for low and high frequencies. The probe is rated with 300 V CAT II maximum input voltage and complies with latest safety standards. Like every PMK passive probe the PMM 511A features CeramCoreTM technology. The probe's entire core is made of a high quality ceramic hybrid. Pure coaxial design and laser trimmed resistors ensure highest signal fidelity along the signal path offering high bandwidth and fast risetimes for accurate impulse measurements. All passive probes are equipped with PMKs signature spring loaded, needle sharp tips to support precise and safe measurements minimizing the risk of slipping off the board and produce a short circuit. Various types of tips are available. Besides the spring contact tips there is also a solid tip available at the users choice. Probe tips are interchangeable and can be replaced easily. Basic probe accessories and replacement tips are provided within the scope of delivery or can be purchased separately. See this datasheet and corresponding documents for further details.

Thank you for your interest in our product!



Datasheet

This datasheet supersedes all previously published material. Specifications that are defined typical are not guaranteed and are published as general information to the user. The instrument should have warmed up for at least 20 minutes and the environmental conditions must not exceed the specified limits of the probe. Note that specifications are subject to change without notice.

Electrical specifications

Attenuation ratio (1)	10:1	± 2 % at DC
Voltage coefficient	0.0025 % / V	(typical)
System bandwidth	500 MHz	(-3 dB)
System risetime	0.7 nsec	(10 % – 90 %)
		(typical)

Maximum rated input voltage Measurement category I:

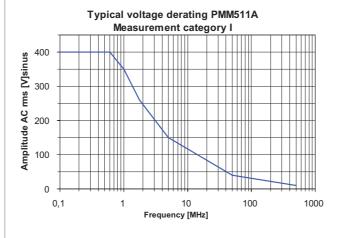
Measurement category II: Pollution degree

400 V rms 1250 V transient overvoltage

300 V rms CAT II

2

Voltage derating





Note that the max. input voltage rating of the probe decreases as the frequency of the applied signal increases.

(1) Connect to oscilloscope with an input impedance of 1 M Ω ± 1 %.

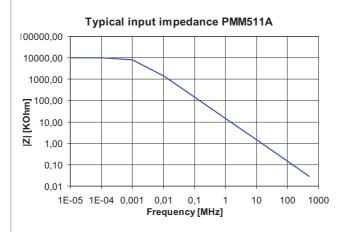


Datasheet

Electrical Characteristics

Input resistance (system)	10 MΩ	± 1 %
Input capacitance (system)	11 pF	(typical)
Compensation range	10 pF – 20 pF	(typical)
Input coupling of the measuring instrument	1 MΩ AC / DC	

Input impedance

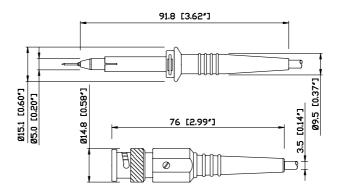




Note that the input impedance of the probe decreases as the frequency of the applied signal increases.

Mechanical characteristics

Weight (probe only) 46 g
Cable length 1.2 m
Probe tip diameter 5 mm





Datasheet

Environmental specifications

Altitude operating up to 2000 m non-operating up to 15000 m

Temperature range operating 0 °C to +50 °C

non-operating -40 °C to +71 °C

Maximum relative humidity operating 80 % relative humidity for temperatures

up to +31 °C, decreasing linearly to

40 % at +50 °C

Declaration of conformity

The manufacturer declares the conformity of his products with the actual required safety standards in accordance with the Low Voltage Directive (LVD) 73/23/EEC and amendment 93/68/EEC:

CEI/IEC 61010-031:2002

Safety requirements for electrical equipment for measurement, control and laboratory use.

Part 031:

Safety requirements for hand-held probe assemblies for electrical measurement and test.

WEEE/ RoHS directives

PMK electronic products are classified within the WEEE/ RoHS* category list as monitoring and control equipment (category 9). Category 9 products are exempt from the restrictions under the scope of the RoHS directive.

Your help and efforts are required to protect and keep clean our environment. Therefore return any electronic product at the end of its life either to the manufacturer or take care of separate WEEE collection and professional WEEE treatment yourself. Do not dispose as unsorted municipal waste!

* EC Directives:

WEEE Directive 2002/96/EC - Waste Electrical and Electronic Equipment

RoHS Directive 2002/95/EC – Restriction of the use of certain Hazardous Substances

in Electrical and Electronic Equipment

PM

PMM 511A

Datasheet

Scope of delivery PMM 511A Order-No. 855-511-A00

- Probe
- BNC adapter 5.0
- Ground blade 5.0
- Ground spring 5.0
- Ground lead 11 cm
- IC-Caps 0.8 to 1.27 mm pitch
- Instruction manual
- Insulating cap 5.0

- Protection cap 5.0
- Spring tips 0.8 mm & 0.38 mm
- Solid tip 0.8 mm
- Sprung hook 5.0
- Adjustment tool T
- 2 footer positioner
- Coding rings (Set) 3 x 4 colours

Safety information

To avoid personal injury and to prevent fire or damage to this product or products connected to it, review and comply with the safety informations stated in the manual before using this product. Be aware that if you use this probe assembly in a manner not specified the protection this product provides may be impaired.

Only qualified personnel should use this probe assembly.

Manufacturer

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