



# PMM SERIES

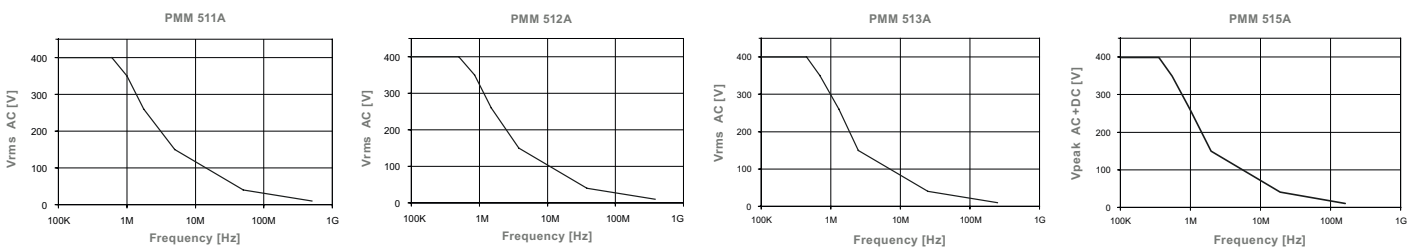
High Impedance Passive Probe

	PMM 511A / 511A-RO	PMM 512A / 512A-RO	PMM 513A / 513A-RO	PMM 515A / 515-RO
Order number without Read-Out	855-511-A00	855-512-A00	855-513-A00	855-515-A00
Order number with Read-Out	855-511-A01	855-512-A01	855-513-A01	855-515-A01
<b>Electrical Specifications</b>				
Attenuation Ratio ( $\pm 2\%$ at DC) (1)	10:1	10:1	10:1	10:1
System Bandwidth (-3 dB)	500 MHz	380 MHz	250 MHz	175 MHz
Rise time (10% - 90%)	0.7 ns	0.95 ns	1.4 ns	2 ns
Voltage Coefficient (at DC)	0.00025%/V	0.00025%/V	0.00025%/V	0.00025%/V
Input Resistance (System) ( $\pm 1\%$ )	10 M $\Omega$	10 M $\Omega$	10 M $\Omega$	10 M $\Omega$
Input Capacitance (System)	11 pF	13.5 pF	18 pF	23 pF
Compensation Range	7 pF - 25 pF	7 pF - 25 pF	7 pF - 25 pF	7 pF - 25 pF
Input Coupling of the Measuring Instrument	1 M $\Omega$ AC / DC	1 M $\Omega$ AC / DC	1 M $\Omega$ AC / DC	1 M $\Omega$ AC / DC
<b>Maximum Rated Input Voltages, CAT II, CAT III (2)</b>				
Pollution Degree	2	2	2	2
Measurement Category II	300 V CAT II	300 V CAT II	300 V CAT II	300 V CAT II
<b>Maximum Rated Input Voltages, No Measurement Category, not in CAT II, III, IV (2)</b>				
Pollution Degree	2	2	2	2
No Measurement Category (2)	400 V / 1650 V peak	400 V / 1650 V peak	400 V / 1650 V peak	400 V / 1650 V peak
<b>Maximum Pulse Rating, No Measurement Category, not in CAT II, III, IV (2)</b>				
Upulse (2)	Upulse 1650 V (Step 0V to 1650V)		Upulse 1650 V (Step 0V to 1650V)	
<b>Mechanical Specifications</b>				
Weight (Probe only)	45g	57g	75g	105g
Cable Length	1.2m	2m	3m	5m
Probe Tip Diameter	5mm	5mm	5mm	5mm
Altitude	operating	up to 2000m		
	non-operating	up to 15000m		
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		
	non-operating	95% relative humidity for temperatures up to +40°C		

### Typical Voltage Derating (4)



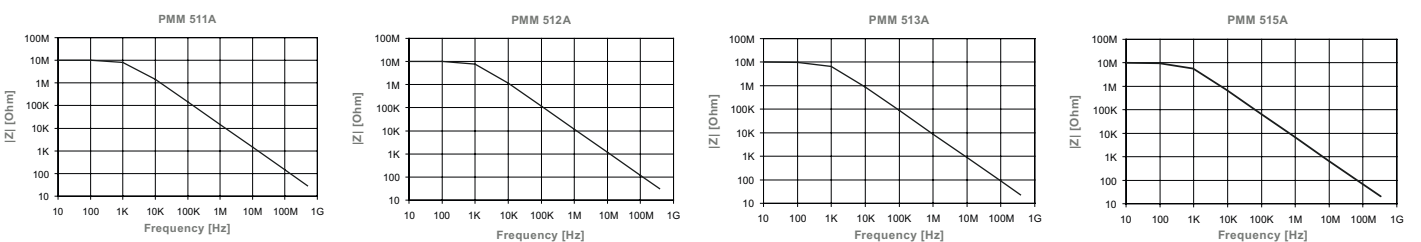
Note that the maximum input voltage rating of the probe decreases as the frequency of the applied signal increases.



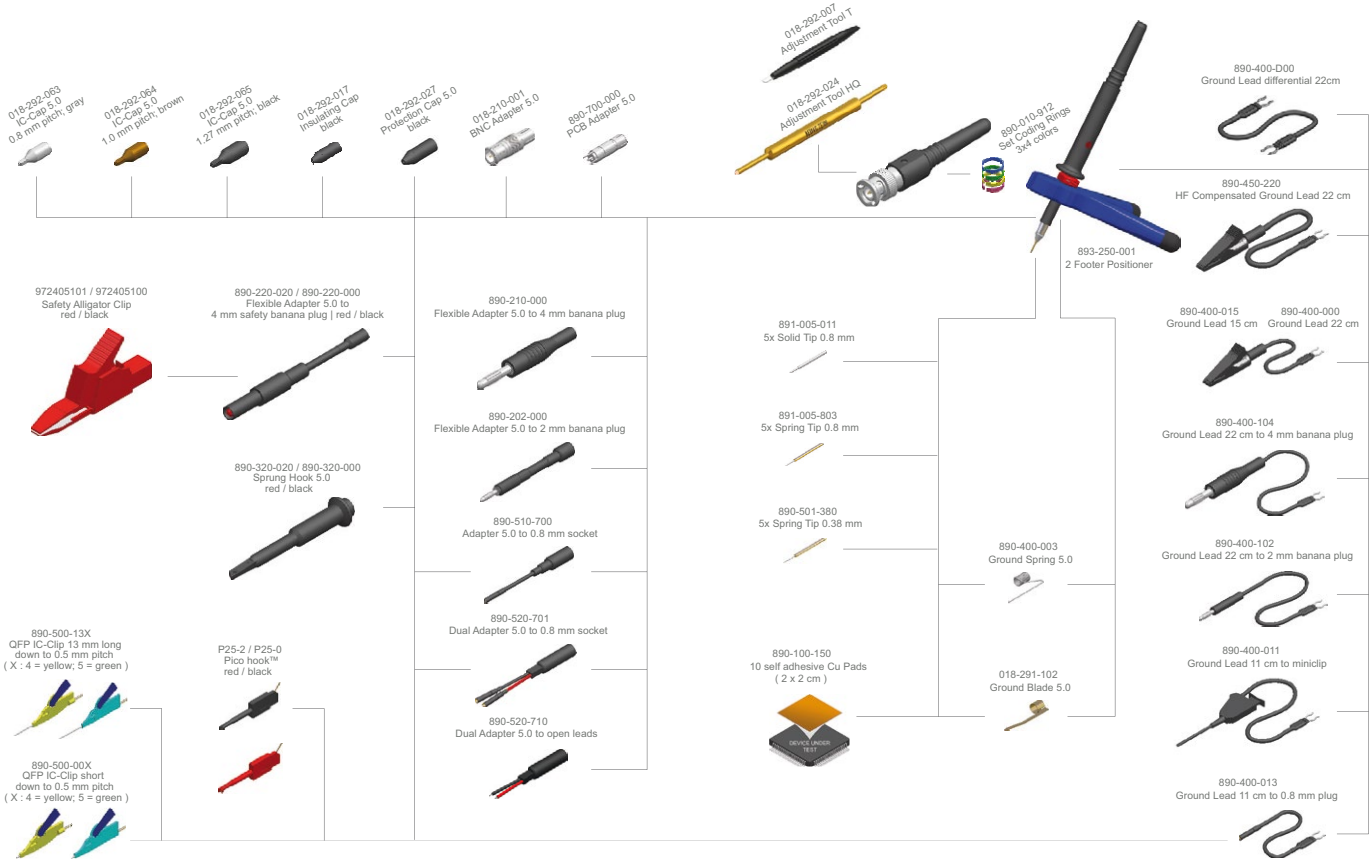
### Typical Input Impedance (4)



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



Probe Accessories



Scope of Delivery

Item	Qty	Item	Qty
2 Footer Positioner	1	Instruction Manual	1
Adjustment Tool T	1	Insulating Cap 5.0	1
BNC Adapter 5.0	1	Probe	1
Coding Rings (set) 3x4 Colors	1	Protection Cap 5.0 (*)	1
Ground-Blade 5.0	1	Self adhesive Cu Pad (2 x 2 cm)	2
Ground Lead 15 cm	1	Solid Tip 0.8 mm	1
Ground Spring 5.0	1	Spring Tip 0.8 mm (²)	1
IC-Cap 5.0 0.8 mm pitch; grey	1	Spring Tip 0.38 mm	1
IC-Cap 5.0 1.0 mm pitch; brown	1	Sprung Hook 5.0	1
IC-Cap 5.0 1.27 mm pitch; black	1	-	-

Use ground lead only for connections to earth ground.

The accessories provided with the probe have been safety tested. Do not use any other accessories than those „originally“ provided.

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