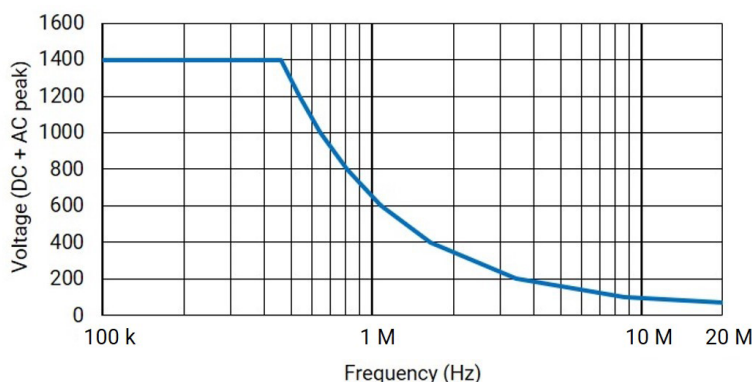
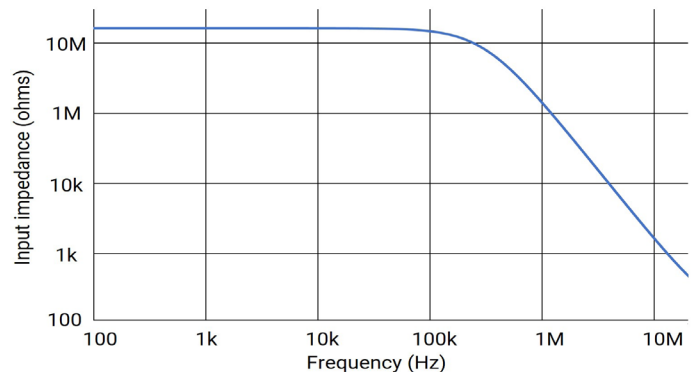


TA511 PICOBNC+ 1400V DIFFERENTIAL PROBE TECHNICAL SPECIFICATIONS

Electrical characteristics

Measurement range	±1400 V (DC + AC peak)
Common mode range	±1400 V (DC + AC peak)
Absolute max. input	±1400 V (DC + AC peak)
Category rating	1000 V CAT III
Derating graph	 <p>The derating graph plots Voltage (DC + AC peak) on the y-axis (0 to 1600 V) against Frequency (Hz) on a logarithmic x-axis (100 k to 20 M). The voltage remains constant at 1400 V until approximately 460 kHz, then decreases to 1000 V at 640 kHz, 500 V at 1.3 MHz, 200 V at 3.4 MHz, 100 V at 8.6 MHz, and 70 V at 20 MHz.</p>
Measurement range	1400 V peak @ 460 kHz 1000 V peak @ 640 kHz 500 V peak @ 1.3 MHz 200 V peak @ 3.4 MHz 100 V peak @ 8.6 MHz 70 V peak @ 20 MHz
When used with a PicoScope 4225A or 4425A oscilloscope	
Bandwidth (-3 dB)	20 MHz
Rise time (calculated)	≤17.5 ns
DC accuracy	±2% of full scale (probe only)
Input resistance (Ω)	16.3 M ±2% each side to ground 32.6 M ±2% across differential inputs
Input impedance graph	 <p>The input impedance graph plots Input impedance (ohms) on a logarithmic y-axis (100 to 10M) against Frequency (Hz) on a logarithmic x-axis (100 to 10M). The impedance is constant at 10M ohms until approximately 100 kHz, then decreases to 100 ohms at 10 MHz.</p>
Common mode rejection ratio (typical)	-70 dB (0.032%) @ 50 Hz -55 dB (0.178%) @ 20 kHz

TA511 PICOBNC+ 1400V DIFFERENTIAL PROBE TECHNICAL SPECIFICATIONS

General characteristics

Input type	Differential, 4 mm shrouded, 0.5 m cable
Probe detection	Automatic, with power and control from oscilloscopes with BNC+ interface
Zero adjustment	Automatic on connection to PicoScope Manual adjustment in software
Output connection	PicoBNC+ (up to three units can be used at once)
Total length	2 m (including input leads, probe body and output lead)
Enclosure dimensions	131 mm x 66 mm x 31 mm
Weight (approximate)	250 g

Environmental specifications

Operating temperature range	0 to 45 °C
Storage temperature range	-20 to 60 °C
For quoted accuracy	15 to 30 °C
Operating humidity	5 to 85 %RH, non-condensing
Storage humidity	5 to 95 %RH, non-condensing
Altitude	Up to 2000 m
Pollution degree	EN 61010 pollution degree 2: "only nonconductive pollution occurs except that occasionally a temporary conductivity caused by condensation is expected"
Warranty	1 year (for further warranty information, please see Safety Guide)

Compliance

Safety	EN 61010-031
Environmental	RoHS, WEEE & REACH
EMC	Tested to EN 61326-1 and FCC Part 15 Subpart B

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