TELONIC
TEST INSTRUMENTS & POWER SUPPLIES
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High Voltage Differential Probe

Parameter \ Model		DPB5150	DPB5150A	DPB5700	DPB5700A	DPB1300	DPB4080
							
Bandwidth		DC-70 MHz	DC-100 MHz	DC-70 MHz	DC-100 MHz	DC-50 MHz	DC-50 MHz
Rise time		≤5 ns	≤3.5 ns	≤5 ns	≤3.5 ns	≤7 ns	≤7 ns
DC Accuracy		±2%	±2%	±2%	±2%	±2%	±1%
Attenuation Ratio		50 X/500 X		100 X/1000 X		50 X/500 X	
Max Differential Test Voltage (DC + Peak AC)		50 X: 150 V 500 X: 1500 V		100 X: 700 V 1000 X: 7000 V		50 X: ±130 V 500 X:±1300 V	10 X: 80 V 100 X: 800 V
Max input common Mode voltage (voltage-to-earth Vrms)		600 V CATIII 1000 V CATII		1000 V CATIII 2300 V CATII		600 V CATIII 1000 V CATII	800 Vrms
Input Impedance	**Single-ended to ground**	5 MΩ	5 MΩ	20 MΩ	20 MΩ	5 MΩ	27 MΩ
	Two inputs	10 MΩ	10 MΩ	40 MΩ	40 MΩ	10 MΩ	54 MΩ
Input Capacitance	**Single-ended to ground**	< 4 pF	< 4 pF	<5 pF	<5 pF	<4 pF	< 2.3 pF
	Two inputs	< 2 pF	< 2 pF	< 2.5 pF	< 2.5 pF	< 2 pF	< 1.2 pF
CMRR	**DC**	> 80 dB	> 80 dB	> 80 dB	> 80 dB	> 80 dB	> 80 dB
	100kHz	> 60 dB	> 60 dB	> 60 dB	> 60 dB	> 60 dB	> 60 dB
	1MHz	> 50 dB	>50 dB	> 50 dB	> 50 dB	> 50 dB	> 50 dB
Noise (Vrms)		50 X: <50 mV 500 X: <300 mV		100 X: < 200 mV 1000 X: < 1.2 V		50 X: < 50 mV 500 X: < 300 mV	Null
Propagation Delay		18 ns±1 ns				Probe: ≈10 ns BNC Line (1m): ≈ 5 ns	Null
Bandwidth limit		≥-3 dB@5 MHz					Null
Differential overvoltage Detection level		50 X: ≥150 V 500 X: ≥1500 V		100 X: ≥700 V 1000 X: ≥7000 V		50 X: ≥140 V 500 X: ≥1400 V	Null
Overload indicator(red light)		Yes					Null
Overload Alarm		Yes (Can shut up manually)				Null	Null
Automatic Save		Yes					
Offset Setting function		Yes (Set in test mode)					
Terminate Load		1 MΩ				≥100 kΩ	Null
Power Supply		USB 5 V/1 A Adapter				DC 12 V/1.2 A Power	9 V DC Power
Probe body dimensions		195*65*28 mm				145*58*24 mm	165*69*26 mm
Probe body weight		Approx 188 g		Approx 190 g		Approx 165 g	Approx 500 g

High Voltage Probe

Parameter \ Model		HPB4010
		
Bandwidth		DC-40 MHz
Rise time		≤7 ns
Max. Measurement Voltage		DC: 0~10 kV DC AC: pulse ≦ 20 kV peak to peak; sine wave ≦ 7 kV rms
Single / Noise		DC≥60 dB(1 kHz),≥50 dB(1 MHz)
Attenuation Ratio		1:1000
Input Impedance		100 MΩ±1%
Input Capacitance		3.0 pF±0.5 pF
Compensation Range		5 pF~50 pF
Cable length		2.0 meter (±0.2 M)
Temperature Coefficient		≤200 ppm/℃
Accuracy	**DC**	±2% (DC to 10 kV) ±3% (Above 10 kV)
	AC	±3% (1 KHz/1 KV) -3 dB 50 MHz
Operating Temperature		0~50 ℃
Storage Temperature		-20~+70 ℃
Weight / Volume		250 g/Φ75×340 mm