TEKTRONIX

THDP0200

The Tektronix THDP0200 is a 200 MHz high-voltage active differential probe designed for safe, high-speed differential voltage measurements of up to □1500 V. Integrating the TekVPI interface, it connects directly to compatible Tektronix oscilloscopes, drawing power and enabling auto-scaling and communication directly with the host instrument.

SPECIFICATIONS

General

Interfaces	TekVPI

Physical

Power Supply	Powered directly by host oscilloscope via TekVPI interface
Operating Temperature	0 to +40 °C °C
Dimensions (W×H×D)	207 mm x 38 mm x 30 mm (probe head); 111 mm x 41 mm x 81 mm (compensation box) mm
Weight	0.36 kg

Electrical Performance

Bandwidth	200 MHz
Rise Time (10% to 90%)	< 1.8 ns
Attenuation Ratios	50x, 500x
DC Attenuation Accuracy	±2%
Input Resistance (Differential Mode)	10 MΩ
Input Resistance (Common Mode)	5 MΩ
Input Capacitance (Differential Mode)	< 2 pF
Input Capacitance (Common Mode)	< 4 pF

Voltage Range and Signal Limits

Differential Dynamic Range (50x)	±150 V
Differential Dynamic Range (500x)	±1500 V
Common Mode Operating Range	±1500 V
Maximum Non-Destructive Input Voltage	1000 V CAT II, 600 V CAT III

Common Mode Rejection Ratio (CMRR)

CMRR at DC	> -80 dB
CMRR at 100 kHz	> -60 dB
CMRR at 3.2 MHz	> -30 dB
CMRR at 100 MHz	> -26 dB

Connectivity and Interfaces

Output Connection Interface Type	TekVPI
Cable Length	1.5 m
Auto-Scaling Support	Yes

Environmental and Safety Compliance

Non-Operating Temperature Range	-40 to +75 °C
Operating Humidity Range	5% to 90% RH (below +30 °C), 5% to 60% RH (+30 °C to +40 °C)
Operating Altitude	Up to 3,000 m
Safety Certifications	UL61010-031, EN61010-031, IEC61010-031
RoHS Compliance	Yes

Safety & Compliance

Safety Voltage Rating (Differential)	1500 V CAT II / 1000 V CAT III
Safety Voltage Rating (Common Mode to Earth)	1000 V CAT II / 600 V CAT III

Performance

Selectable Bandwidth Limit	5 MHz
Propagation Delay	6.5 ns (typical)
Noise (50x Attenuation, Full Bandwidth)	< 220 mVrms (referred to input)
Noise (500x Attenuation, Full Bandwidth)	< 1.1 Vrms (referred to input)
Noise (50x Attenuation, 5 MHz BW Limit)	< 150 mVrms (referred to input)
Noise (500x Attenuation, 5 MHz BW Limit)	< 500 mVrms (referred to input)

Features

Overrange Indicator	Yes (visual LED and audible alarm)

Inputs & Outputs

Input Coupling	DC

TECHNOLOGY

Active Differential

APPLICATIONS

High Voltage Differential Probing, Power Supply Design, Motor Drive Design, Power Device Evaluation

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