PINTEK 25MHz FET INPUT DIFFERENCE PROBE DP-25

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SPECIFICATIONS

Band width : DC-25MHz (-3dB) , (DC-15MHz at × 20)
Accuracy : ± 2% at 20-30 ℃ 70% RH after 20 minutes warm up.
Attenuation : × 20, × 50, × 200

Maximum operation
Voltage (DC+peak AC) : ≦ ± 140V at × 20
≦ ± 350V at × 50
≦ ± 1300V at × 200

Maximum input
Differential Voltage : 1300V (DC+peak AC)

Maximum input
Voltage to Ground : 1000V (DC+peak AC)

Common Mode Rejection
Ratio (CMRR) : 60 Hz : > 10,000 : 1
100 Hz : > 1,000 : 1
1MHz: > 300 : 1

Noise : ≦ 3mV rms (at × 20 : ≦ 7.5mV rms)

Input Impedance : 2 MΩ, 2.3 PF between inputs and ground.
4 MΩ, 1.2 PF between inputs.

Power : One internal 9V alkaline battery or external 6V-9V DC.

WARNING

1. Do not use DP-25 above 1000v (DC+peak AC) between ground and the input or 1,300V (DC+peak AC) between the input lead.
2. Do not operate DP-25 in wet or damp condition.
3. Do not operate DP-25 in an explosive atmosphere.
4. Do not immerse DP-25 in liquids.
5. Do not operate DP-25 without covers.
6. Please change the battery when the "LOW BATT" LED is lighted. At this time DP-25 can operate but not guaranteed the accuracy.
7. DP-25 can not operate if both POWER and LOW BATT LED are not light.

FEATURES

1. The DP-25 FET input differential probe provieds a safe means of measuring circuits with floating potentials up to 1000 V (DC + peak AC) from ground and 1300 V (DC + peak AC) differential.
2. The DP-25 converts the high voltage differencial input signal to a low voltage ground refereced signal for display on any Oscilloscope.
3. The output BNC of DP-25 is calibrated to drive a high impedance (1 MΩ) load.

INSTRUCTION FOR USE

1. Connect the output BNC of DP-25 to the input BNC of the Oscilloscope by the accessory BNC cable.
2. Adjust the vertical offset of the Oscilloscope if necessary.
3. Set the select proper range of the DP-25 and the V/ DIV of the Oscilloscope according to the scale conversion chart.
   NOTE : If the voltage of the input signal exceeeds the linear range of the setting range. The signal output of the DP-25 would not accurately, the wave form display will be cut off .
4. Scale conversion chart : The effective V/DIV is the attenuation factor of × 20, × 50, × 200 multiplied by the scale factor of the Oscilloscope. It will be twice when the 50 Ω load was used. For example, with the range set at × 200, and the scope set to 0.5 V/ DIV , the effective V/ DIV equals 200 × 0.5 or 100 V, when the 50 Ω load was used, it becomes 200 V, the power consumption will increase too.

SCALE CONVERSION CHART

Attenuation	× 200	× 50	× 20
INPUT RAMGE (DC+PEAK AC)	± 1300 V	± 350 V	± 140 V
SCOPE V/DIV	EFEECTIVE V / DIV		
1	200	50	20
0.5	100	25	10
0.2	40	10	4
0.1	20	5	2
50 m	10	2.5	1
20 m	4	1	0.4
10 m	2	0.5	0.2
5 m	1	0.25	0.1
2 m	0.4	0.1	40 m