

DP-50K

HIGH VOLTAGE DIFFERENTIAL PROBE

SPECIFICATIONS:

(1) Bandwidth:

DC - to 60 MHz (-3 dB) for X500

DC - to 20 MHz (for attenuation X5000)

(2) Attenuation: x 500, or X5000

(3) Accuracy: $\pm 2\%$

(4) Voltage Input Ranges (DC+AC peak to peak):

≤ 25 KV DC for X5000, (i.e about 17 KV RMS or 25 KV DC)

≤ 2.5 KV DC for X500, (i.e about 1.7 KV RMS or 2.5 KV DC)

(5) Permitted Max Input Voltage

Max differential voltage: 50 KVp-p (DC+AC peak to peak)

Max voltage between each input terminal and ground: 8.8 KV RMS

(6) Input Impedance:

Differential: 140 M Ω // 3 pF

Between terminals and ground: 280 M Ω // 1.5 pF

(7) Output: $\leq \pm 5$ V

(8) Output Impedance: 50 Ω

(9) Rise Time: 5.8 ns for X500; 17.5 ns for X5000

(10) Rejection Rate on Common Mode:

60 Hz: >80 dB , 100 Hz: >60 dB , 1 MHz: >50 dB

(11) Power Supply: External 9 V DC power supply.

(12) Consumption: 120 mA max (1.1 WATT)

CAUTION!

(1) Please DO NOT hold the probe itself when measuring the high voltage is over 1 KV. Please put the probe itself on the working table.

(2) Please DO NOT measuring home electricity (including two-phase electricity and three-phase electricity). DO NOT measure over 10 KV RMS.

(3) Please let the probe has 30 minutes rest after having a 5 minutes normal measurement for over DC 10 KV or AC 7 KV RMS.

It is able to give time for internal high voltage resistors to cool down.