

DP-40K HIGH VOLTAGE DIFFERENTIAL PROBE

SPECIFICATIONS

(1) Bandwidth:

DC - 75 MHz (-3 dB) for x 500

DC - 20 MHz (-3 dB) for x 5000

(2) Attenuation: x 500, x 5000

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

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

≤ 40 KV for x 5000, (i.e about 14 KV RMS or ± 20 KV DC)

≤ 4 KV for x 500, (i.e about 1.4 KV RMS or ± 2 KV DC)

(5) Permitted Max Input Voltage

Max differential voltage: 40 KV (DC + AC peak to peak)

Max voltage between each input terminal and ground: 10 KV RMS

(6) Input Impedance:

Differential: $108.8 \text{ M}\Omega // 1 \text{ pF}$

Between terminals and ground: $54.4 \text{ M}\Omega // 2 \text{ pF}$

(7) Output: $\leq \pm 4.0 \text{ V}$

(8) Output Impedance: 50Ω

(9) Rise Time:

4.7 ns for x 500

17.5 ns for x 5000

(10) Rejection Rate on Common Mode:

60 Hz: $> 80 \text{ dB}$, 100 Hz: $> 60 \text{ dB}$, 1 MHz: $> 50 \text{ dB}$

(11) Power Supply:

External 9 V DC power supply.

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