

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 KVRms or 25 KV DC)

≤ 2.5 KV DC for X500, (i.e about 1.7 KVRms 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 KVRms

(6) Input Impedance:

Differential: $140\text{ M}\Omega // 3\text{ pF}$

Between terminals and ground: $280\text{ M}\Omega // 1.5\text{ pF}$

(7) Output: $\leq \pm 5\text{ V}$

(8) Output Impedance: $50\text{ }\Omega$

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

(10) Rejection Rate on Common Mode:

60 Hz: $>60\text{ dB}$, 100 Hz: $>50\text{ dB}$, 1 MHz: $>40\text{ dB}$

(11) Power Supply:

9 VDC power supply (customized, only can use the one attached)

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