Micsig

High Voltage Differential Probe

DP Series Introduction

DP10007

DP10013

DP20003

Key performance specifications

- Bandwidths up to 100 MHz
- Maximum Differential Test Voltage （DC+ AC Peak ）
  up to 700V(DP10007),1300V (DP10013), 5600V (DP20003)
- Switchable attenuation: DP10007(10X, 100X),
  DP10013(50X, 500X),
  DP20003(200X, 2000X)

Applications

- Floating measurements
- Switching power supply design
- Motor drive design
- Electronic ballast design
- CRT display design
- Power converter design and service
- Power device evaluation

Model	DP10007	DP10013	DP20003
Bandwidth	100MHz	100MHz	100MHz
Rise Time	≤3.5ns	≤3.5ns	≤3.5ns
Attenuation	10X 100X	50X 500X	200X 2000X
Gain accurecy	±2%	±2%	±2%
Maximum Differential Test Voltage（DC+AC PK）	70V（10X） 700V(100X)	130V（50X） 1300V(500X)	560V（200X） 5600V(2000X)
Maximun input common mode voitage	CAT I 600V CAT II 1000V	CAT II 1000V	CAT III 1000V
Input referred noise	≤15mV rms (10X) ≤60mV rms (100X)	≤40mV rms (50X) ≤230mV rms (500X)	≤160mV rms (200X) ≤920mV rms (2000X)
Common Mode Rejection Ratio	≤-80dB@50Hz ≤-50dB@1MHz ≤-60dB@20KHz ≤-40dB@10MHz	＞80dB (DC) ＞60dB (100KHz) ＞50dB (1MHz)	＞80dB (DC) ＞60dB (100KHz) ＞50dB (1MHz)
Input Impedance	8MΩ/1.25pF(differential) 4MΩ/2.5pF(single-ended to ground)	10MΩ/1pF(differential) 5MΩ/2pF(single-ended to ground)	50MΩ/1.25pF(differential) 25MΩ/2.5pF(single-ended to ground)
Output Voltage	≤7V	≤3V	≤3V
Overrange Alarm	Button light flashes	Button light flashes	Button light flashes
Power Supply	DC 5V,USB Supply	DC 5V,USB Supply	DC 5V,USB Supply
Power	1.25W	0.85W	0.85W
Dimension	14.5cm*6cm*2.7cm	14.5cm*6cm*2.7cm	14.5cm*6cm*2.7cm
Input cable length	Approx 45cm	Approx 45cm	Approx 45cm
Output cable length	Approx 90cm	Approx 90cm	Approx 90cm
Operating Temperature	0°C~40°C	0°C~40°C	0°C~40°C
Operating Humdity	10%~85%	10%~85%	10%~85%