

# SI-51

## Differential Probes



敏盛企業有限公司

MAVIN METROLOGY EN.CO.,LTD

TEL:03-5970828 FAX:03-5972622

地址：新竹縣湖口鄉工業四路3號2F

http://www.mavin.com.tw



<b>Features:</b> <ul style="list-style-type: none"> <li>· High Accuracy(+/-1%)</li> <li>· Best CMRR in Power Measurement Probes</li> <li>· Smallest Size</li> <li>· Safety Certified</li> </ul>	<b>Applications:</b> <ul style="list-style-type: none"> <li>· Precise Power Semiconductor Device Measurement</li> <li>· Switching Power Supply Design</li> <li>· Precise Measurement of Power Converter</li> <li>· Precise Measurement of Motor Drive</li> </ul>
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### Specifications

Bandwidth	DC to 50MHz (-3dB)
Attenuation Ratio	1/100
Accuracy	+/- 1%
Rise Time	7ns
Input Impedance	4Mohm//7pF each side to ground
Input Voltage	
-Differential Range	+/- 700V(DC+Peak AC) or 600Vrms +/-1400V(DC+Peak AC) or 600Vrms
-Common Mode Range	+/-1400V(DC+Peak AC) or 600Vrms
-Absolute Max. Voltage (Differential or Common Mode)	+/-1400V(DC+Peak AC) or 600Vrms CAT II
Output Voltage	
- Swing	+/-7V (into 5kohm load)
-Offset (typical)	<+/-1mV
-Noise (typical)	0.3mVrms
-Source Impedance (typical)	50 ohm (for using 1Mohm input system oscilloscope)
CMRR (typical)	-90dB @60Hz, -55dB @1MHz
Power Requirements*	
-Options	Power leads, Mains adaptor* (6VDC/90mA or regulated 9VDC/70mA), USB power cord
Optional Extension Plugs for Mains Adaptor	
-Input	One jack of 1A current rating.
-Output	Three plugs of 1A current rating
Ambient Operating Temperature	-10 to 40 degree centigrade
Ambient Storage Temperature	-30 to 70 degree centigrade
Ambient Operating Humidity	25 to 85% RH
Ambient Storage Humidity	25 to 85% RH
Length of BNC Cable	125cm
length of Input Leads	50cm
Weight	300gms
Dimension(LxWxH)	111mm x 22mm x 14mm

- \* a. The supplied voltage must be less than 16V and greater than 3.3V, otherwise the probe could be damaged or can't be operated properly.  
 b. For wrong polarity of power sources, a built-in circuit will protect the probe and no danger or damage will occur.  
 c. When the voltage of the cells become too low, the power indicator on the panel will dim and then distinguish.