



# 41800A Active Probe, 5 Hz to 500 MHz

## Data Sheet

### Product Specifications

Specification (Terminated with Agilent 11880A Type N Adapter)

- Bandwidth: 5 Hz to 500 MHz
- Probe Gain: 0 dB
- Input R,C(typical) :100 kilo ohm,3 pF(probe alone)  
1 mega ohm,1 pF(with 10:1,100:1 divider)
- Frequency Response Relative to 50 MHz: +/-2 dB @<50 Hz  
+/-1 dB @50 Hz to 200 MHz  
+1.5/-2 dB @>200 MHz
- Average Noise Level(typical): 10 nV/ Hz ^0.5
- 2nd Harmonic Distortion(typical) :<-50dBc@-20dBm(250 MHz) input
- 3rd Order Intermodulation Distortion(typical) :<-70dBc@-26dBm two signal input(400 MHz,400.5 MHz)
- 1 dB Gain Compression : >+3dBm input @500MHz
- Maximum Allowable Input:  
AC+DC:+/-40 V(probe alone)  
AC: 0.5Vrms(probe alone)  
AC: 0.5Vrms (with 1:1 divider)  
AC: 5Vrms (with 10:1 divider)  
AC: 30Vrms (with 100:1 divider)
- Output Connector: 50 ohm type N male
- Power: +15V/85mA,-12.6V/65mA
- Weight: 0.3 kg(probe alone)  
2 kg(include accessories)
- Length: approximately 1.2m
- Operating Temperature Humidity: 0 to 55 degC, RH <= 95%(40 degrees Celsius)

