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CT4121

1.2 GHz Active FET Probe Kit

Datasheet

Overview:

The CT4121 is a compact FET probe with very high input resistance and low input capacitance. With a 1.2 GHz bandwidth, this probe is ideal for timing analysis or troubleshooting high speed logic circuits, for design verification of disk drives, as well as for wireless and data communication design. The CT4121 can measure up to ± 40 V (DC + AC peak). Compatible with oscilloscopes from all major manufacturers, the probe is powered by the included 9 V battery or direct from the oscilloscope using the included USB power lead.

Features:

- 1.2 GHz bandwidth (-3 dB)
- Up to ± 40 V (DC + AC peak)
- Attenuation 10x
- High accuracy ($\pm 2\%$)
- Power indicator LED
- SMD accessory kit



All specifications apply to the unit after a temperature stabilization time of 20 minutes over an ambient temperature range of 25 °C ± 5 °C.

Electrical Characteristics	
Bandwidth (-3dB)	1.2 GHz
Rise Time (probe only)	291 ps
Attenuation ratio	10x
Accuracy	±2%
Input Dynamic Range (DC + AC peak)	±15 V
Maximum Input Voltage (DC + AC peak)	±40 V
Input Impedance	1 MΩ // 3 pF typical
Output Voltage Swing	±1.5 V (driving 50 Ω oscilloscope input)
Offset (typical)	±5 mV
Adjustable output offset range	±28 mV
Noise (typical)	0.3 mVrms
Source Impedance	50 Ω
Power Supply	9 V battery (included) or CT4122 USB power lead (included) or CT3723 power adapter (optional)
Safety Specifications	IEC 61010-031 CAT I

Mechanical Characteristics	
Weight	200 g
Dimensions	83 x 19 x 14 mm
Cable Length	120 cm (Total)

Environmental Characteristics	
Operating Temp/Humidity	-10°C to 40°C / Up to 85% RH
Storage Temp/Humidity	-30°C to 70°C / Up to 85% RH
Pollution Degree	Pollution Degree 2
Altitude	Operating: 3,000 m Nonoperating: 15,300 m

Specifications are subject to change without notice. To ensure the most current version of this manual, please download the current version from our website: caltestelectronics.com

Performance Data Plots

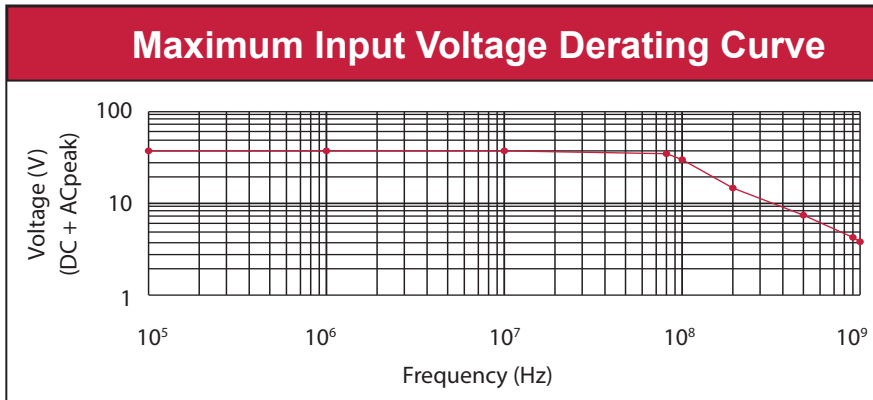


Figure 1 Maximum Input Voltage Derating Curve

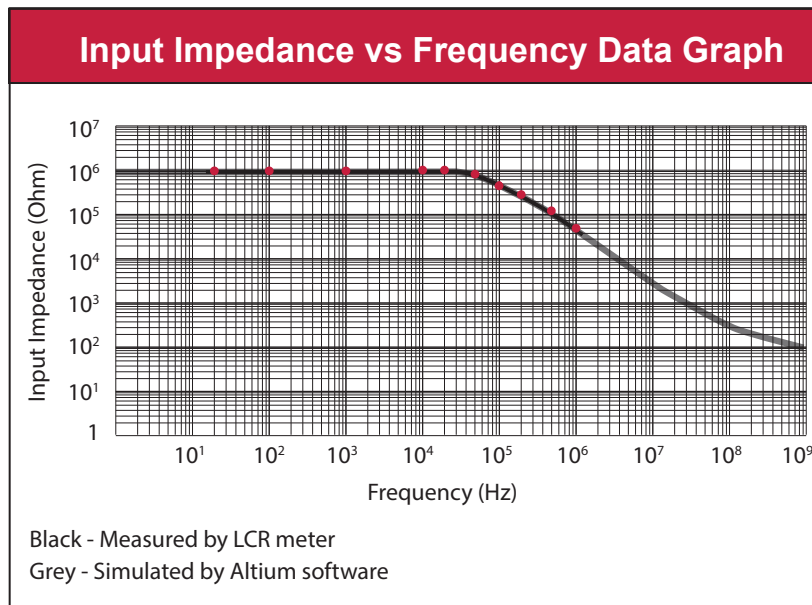


Figure 2 Input Impedance vs Frequency Data Graph

Kit Contents:

- Active FET probe
- 50 Ω feed-through terminator (CT2944-50)
- USB power lead (CT4122)
- 9 V battery
- Offset adjustment tool
- User manual
- SMD kit
 - (2) SMD test clip, gray (CT3659-8)
 - (2) MicroLeads, 0.8 mm, Pin-Jack, 5 cm, Black/Red
 - (2) MicroLeads, 0.8 mm, Pin-Jack, 10 cm, Black/Red
 - (4) Ground pin, bent
 - (6) Test tip, uninsulated, 0.8 mm x 11.6 mm



Technical data subject to change.

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