

P500 Passive Probe Customizable Interconnect Solution

INTRODUCTION

The P500 Passive Probe family is a part of Carlisle Interconnect Technologies' (CarlisleIT) full lineup of customizable interconnect solutions that is a standard, commercial off-the-shelf system engineered to deliver consistent, repeatable and dependable results. It is designed to provide a superior quality "look and feel" for customers who want a cost effective solution with the highest quality, and is fully customizable for color, shape, logos, markings, and attenuation. Accessories can also be custom-designed to your application.

| Feature | Customer Benefit |
|--|---|
| Miniaturized probe head | • Ideal for probing ne pitch integrated circuits and dense geometry circuit elements common on modern electronics |
| Probe coding | • Automatic attenuation scaling via BNC interface when used with compatible oscilloscopes |
| Third-party certified, exceeds UL61010-31, IEC61010-31 | • Superior product quality and safety assured by Underwriter Laboratory certification |
| Customizable design | • Customizable to match electrical performance and industrial design requirements for probe and probe accessories |



Passive Probe P500

SUGGESTED APPLICATIONS

- » Low power device services
- » Manufacturing
- » Test research and development
- » Low to medium frequency measurement
- » Low frequency computer and telecom measurements
- » Power supplies
- » Inverter design

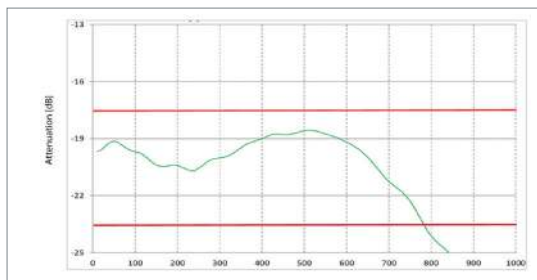
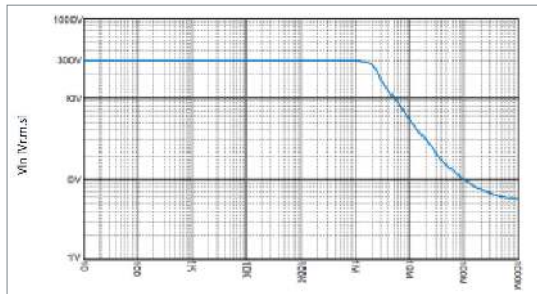
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SPECIFICATIONS AND PERFORMANCE

| Parameter | P500-010 (10X) |
|------------------------|---|
| Bandwidth | DC to 500 MHz |
| Attenuation Ratio | 10:1 |
| Max Input Voltage (V) | *300 V CAT II |
| Input Resistance | 10 MΩ |
| Input Capacitance (pF) | 11 pF |
| Compensation Range | 10 to 35 pF |
| Rise Time | <0.9 ns |
| Safety | Conformance to Low Voltage Directive (LVD) 73/23/EEC, amendment 93/68/EEC; IEC-61010-031:2015 |
| Operating Temperature | 0 °C to 50 °C, 80% RH |
| Storage Temperature | -40 °C to 70 °C |
| Operating Altitude | up to 2,000 m |
| Storage Altitude | up to 15,000 m |

*Max input voltage frequency dependent, see Voltage Derating Curve.

Voltage Derating Curve



ORDERING INFORMATION

| Model | Description |
|---------------|---|
| P500-010 | 10X Probe Kit |
| Kit Includes: | <ul style="list-style-type: none"> » Probe » Grabber Hook » Insulating Tip Cap » BNC Adapter » Replacement Tips » RF Ground Spring » Adjusting Screw Driver » Alligator Ground Lead » Instruction Manual |



(1) Probe, (2) Grabber Hook, (3) BNC Adapter, (4) Alligator Ground lead, (5) RF Ground Spring, (6) Adjustment Tool, (7) Replacement Tips



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