

# 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

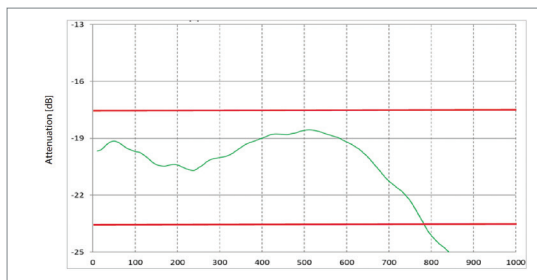
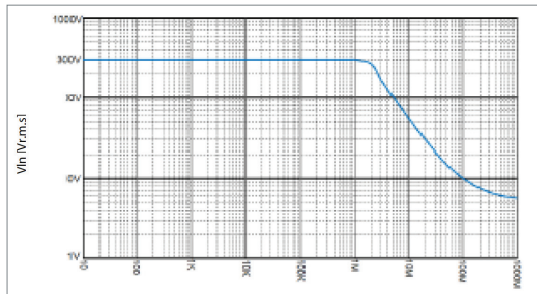
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## SPECIFICATIONS AND PERFORMANCE

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"> <li>» Probe</li> <li>» Grabber Hook</li> <li>» Insulating Tip Cap</li> <li>» BNC Adapter</li> <li>» Replacement Tips</li> <li>» RF Ground Spring</li> <li>» Adjusting Screw Driver</li> <li>» Alligator Ground Lead</li> <li>» Instruction Manual</li> </ul>



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



See CarlisleIT's line of Test & Measurement products at:  
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