

Passive Probe

500 MHz Bandwidth; 1000 V CAT III, 600 V CAT IV



INTRODUCTION

Carlisle Interconnect Technologies' (CarlisleIT) Passive Probe provides an industry leading combination of high bandwidth and high voltage in a low cost, rugged, general purpose probing solution. These probes are available in 1X, 10X and 100X configurations providing broad application coverage. The small UL approved probe body and compact head enables the user to have access to small geometry circuit elements.

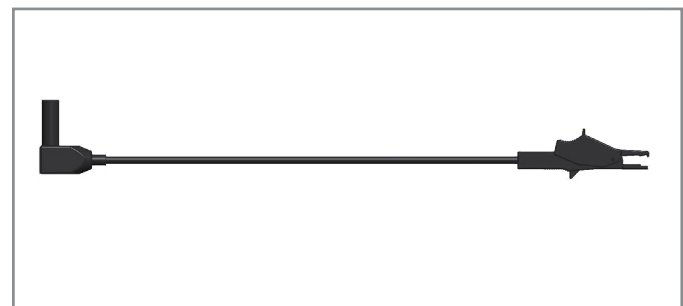
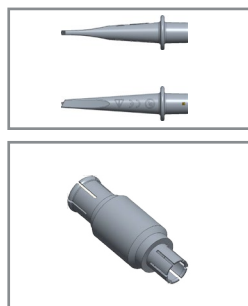
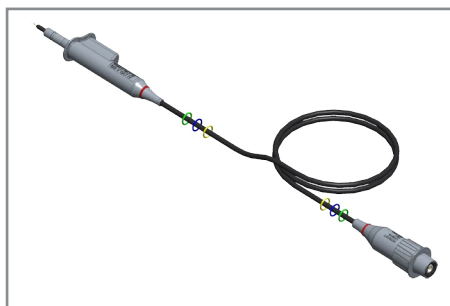
FEATURES

- » 500 MHz bandwidth; 1,000 V CAT III, 600 V CAT IV
- » Exceeds UL61010-31, IEC61010-31
- » Passive voltage probe; available in 1X, 10X and 100X configurations
- » 1.2 m length
- » Compact probe head for small geometry circuit elements
- » Small probe body for enhancing visibility to the DUT

APPLICATIONS

- » Low power device service
- » Manufacturing engineering
- » Test research and development
- » Relative low frequency measurements
- » Low frequency computer and telecom measurements
- » Power supplies
- » Low frequency amplifiers
- » Inverter design
- » Power conversion

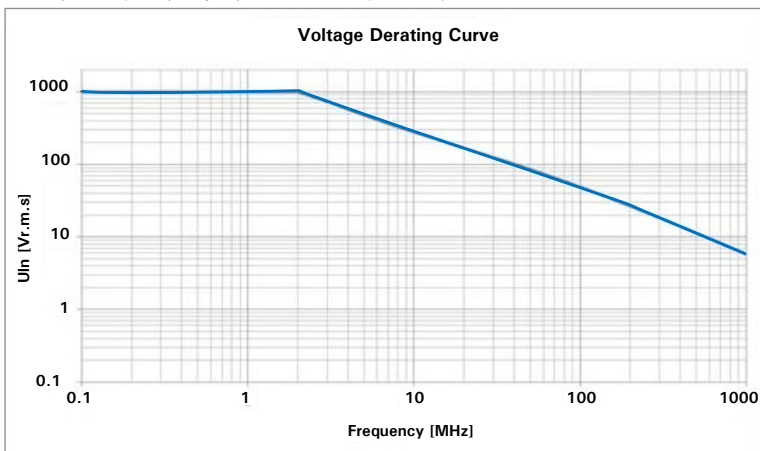
Ordering Information		
Model	Description	
TM50-0012-00	1X High-Voltage Probe Kit	
TM50-0013-00	10X High-Voltage Probe Kit	
TM50-0014-00	100X High-Voltage Probe Kit	
Kit Includes:	<ul style="list-style-type: none"> • Probe • Grabber Hook • Alligator GND Lead • BNC Adapter 	<ul style="list-style-type: none"> • RF GND Spring • Adjusting Screw Driver • Insulating Tip Cap • Instruction Manual



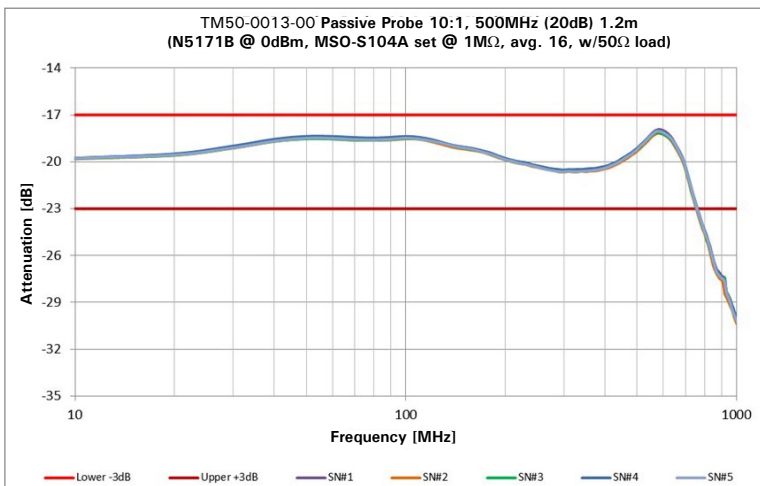
Specifications and Performance

Typical Specifications			
Parameter	TM50-0012-00 (1X)	TM50-0013-00 (10X)	TM50-0014-00 (100X)
Bandwidth	DC to 50 MHz	DC to 500 MHz	DC to 500 MHz
Attenuation Ratio	1:1	10:1	100:1
Max Input Voltage (V)	*600 V Cat III	*1000 V Cat IV	*1000 V Cat IV
Input Resistance	Impedance of measuring instrument	10 mohm	100 mohm
Input Capacitance (pF)	42 pF	12 pF	4.5 pF
Compensation Range	NA	10 - 25 pF, center @ 15 pF	10 - 25 pF, center @ 15 pF
Rise Time	Instrument spec + 6 ns	<1 ns	<1 ns
Safety	Conformance to Low Voltage Directive (LVD) 73/23/EEC, amendment 93/68/EEC; IEC-61010-031:2008		
Operating Temperature	0 to 60 °C, 80% RH		
Storage Temperature	-40 to 71 °C		
Operating Altitude	up to 3,000 m		
Storage Altitude	up to 15,000 m		

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



FREQUENCY RESPONSE



CarlisleIT Passive Probes are engineered and manufactured to deliver consistent, repeatable and dependable results, probe after probe. CarlisleIT provides in-house custom engineering and manufacturing services to customize probing solutions to meet your specific application and requirements.