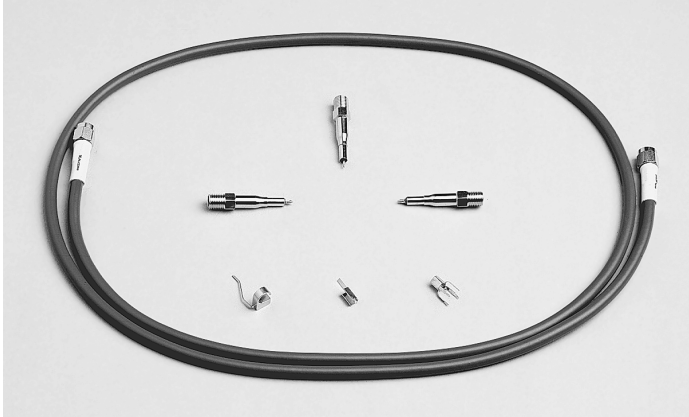


50 Ω Divider (Z_0) Low Capacitance

P6150 Data Sheet



P6150

Features & Benefits

Low Impedance Z_0 TDR Passive Probes

- Low Capacitive Loading to Extremely High Frequencies
- Interchangeable Attenuator Tip Assemblies: 1X, 10X (P6150)

Applications

- High-speed Device Characterization in Microwave Communication, Signal Processing and Logic Applications
- Propagation Delays for ECL, GaAs and Other Logic Circuitry and Devices
- Circuit Board Impedance Testing (TDR)
- High-speed Sampling Systems

P6150 DC to 9 GHz

The P6150 is a 9 GHz bandwidth, 10X attenuation, low impedance probe designed for use with the SD2X family of Sampling/TDR plug-ins. The probe consists of interchangeable, screw-in attenuator tip assemblies (1X and 10X) and an SMA-to-SMA probe cable. An assortment of circuit and grounding attachments is included to optimize attachment to the device under test while maintaining high signal integrity.

Characteristics

Nominal Length – 1 m.

Attenuation – 10X: $\pm 2\%$, 1X: $\pm 2\%$.

Bandwidth – 9 GHz, ≥ 3 GHz

Rise Time – < 38.8 ps, ≤ 170 ps.

Loading Input R/C – 500 Ω / < 0.15 pF, 50 Ω /N/A.

Max V_{in} – $12.5 V_{RMS}$ *1.

Propagation Delay – 4.40 ns ± 0.1 ns, 4.40 ns ± 0.1 ns.

*1 Limited by scope input or 30 V_{RMS} , whichever is less.

Recommended Instruments

TDS8000, CSA8000, TDS820, 11801C, CSA803C, TDS7404, CSA7404, TDS6404, and TDS6604 with TCA-SMA adapter.

Ordering Information

P6150

10X, 9 GHz, 1.0 m, Low Impedance Probe.

Includes: One 1X Attenuator Head (206-0398-00); Two 10X Attenuator Heads (206-0399-03); 1.0 m Cable Assembly (174-1341-00); Instruction Sheet (070-7173-01); and 1 Accessory Kit consisting of: 20 each Ground Clip, 3 each Adjustable Ground Lead, 10 each Electrical Contact and 2 each Probe to Circuit Board Ground Connectors (020-1708-00).

Additional Accessories

	Order
Electrical Contact	
GND, CLIP, PH, BRZ	131-4474-00
GND, LEAD, 0.025 WIRE NICKEL	131-4473-00
0.025 NICKEL ALLOY 52 WIRE	131-4468-00
SMA Male to BNC Female	015-0554-00
SMA Female to BNC Male	015-0572-00



Tektronix is registered to ISO 9001 and ISO 14001 by SRI Quality System Registrar.



Product(s) complies with IEEE Standard 488.1-1987, RS-232-C, and with Tektronix Standard Codes and Formats.

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For Further Information. Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology. Please visit www.tektronix.com



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