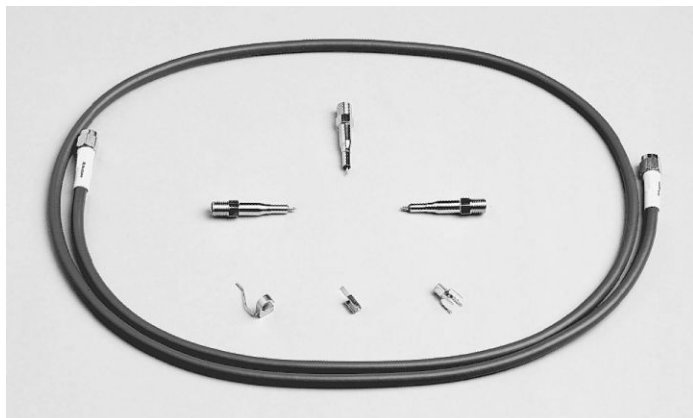


50 Ω divider (Zo) low capacitance

P6150 Datasheet



P6150

Notice to EU customers

This product is not updated to comply with the RoHS 2 Directive 2011/65/EU and will not be shipped to the EU. Customers may be able to purchase products from inventory that were placed on the EU market prior to July 22, 2017 until supplies are depleted. Tektronix is committed to helping you with your solution needs. Please contact your local sales representative for further assistance or to determine if alternative product(s) are available. Tektronix will continue service to the end of worldwide support life.

Specifications

All specifications are guaranteed unless noted otherwise. All specifications apply to all models unless noted otherwise.

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
Maximum input voltage	12.5 VRMS ¹
Propagation delay	4.40 ns ± 0.1 ns, 4.40 ns ± 0.1 ns

¹ Limited by scope input or 30 Vrms whichever is less.

Features and benefits

Low impedance Zo 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.

Ordering Information

Models

P6150 10X, 9 GHz, 1.0 m, low impedance probe.

Recommended instruments

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

Recommended accessories

Electrical contact

131-4474-00	Gnd, clip, ph, brz
131-4473-00	Gnd, lead, 0.025 wire nickel
131-4468-00	0.025 nickel alloy 52 wire
015-0554-00	SMA Male to BNC Female
015-0572-00	SMA Female to BNC Male



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.tek.com.

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