

20 GHz Single-ended TDR Probe

▶ P8018



The **P8018 Handheld TDR Probe** is a greater than 20 GHz, 50 Ω input impedance, single-ended passive probe with a precision 20 GHz bandwidth SMA cable that provides a high performance solution for electrical sampling TDR circuit board impedance characterization and high-speed electrical signal analysis applications. The P8018 probe can be used as a stand alone high bandwidth probe, but it is specially designed with features to be used with the 80A02 EOS/ESD Protection Module for protecting the sampling bridge of Tektronix electrical sampling modules from damage due to electro-overstress (EOS) and electro-static discharge (ESD) where large static charges can be stored in the DUT.

The P8018 provides a unique probe tip pressure actuating feature and control circuit which, used with the matching **80A02 EOS/ESD Protection Module**, enables a superior technique and performance capability for electrical sampling module EOS/ESD protection of acquired electrical signals and TDR measurements. (See 80A02 product description.)

▶ Features & Benefits

20 GHz Probe Tip Bandwidth

50 Ω Impedance
TDR Passive Probe

Undisturbed 50 Ω Probe
Reference Section

Includes 20 GHz
Precision SMA Cable

Probe Tip Pressure
Actuation Feature used to
Actuate 80A02 EOS/ESD
Protection Module

▶ Applications

Circuit Board Controlled
Impedance Testing (TDR)

Designed for Use
with 80A02 EOS/ESD
Protection Module

COMPUTING

COMMUNICATIONS

VIDEO

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▶ Characteristics

Nominal Length with Cable – 1 meter.

Attenuation – 1X.

Probe Only Bandwidth – >20 GHz.

Probe Pitch – 1.8 mm (signal to ground).

Cable Bandwidth – 20 GHz.

Connector Type – SMA.

Measured Reflected TDR Fall Time – <38 ps spec (<28 ps typical measure with 80E04).

Loading Input – 50 Ω .

Max V_{in} – 5.0 V.

Probe Only Propagation Delay – 1.0 ns.

TDR Control Activation Force – 200 to 260 grams.

(Note: numeric values shown are typical.)

▶ Ordering Information

P8018

20 GHz Single-ended TDR Probe.

Includes: 20 GHz bandwidth 50 Ω input impedance, single-ended passive handheld probe with precision 20 GHz SMA cable, 20 each replaceable ground clips.

Replaceable Items

016-1936-00 – 20 each Ground Clips.

174-4879-00 – 20 GHz SMA Cable with Parallel Control Line (1 Meter Length).

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Our most up-to-date product information is available at:
www.tektronix.com



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