

TEKTRONIX

P8018

The Tektronix P8018 is a high-performance 20 GHz single-ended passive TDR (Time-Domain Reflectometry) handheld probe. It is engineered for high-speed circuit board impedance characterization and fault isolation, providing excellent signal fidelity when paired with compatible sampling oscilloscopes and high-bandwidth TDR modules.

SPECIFICATIONS

General

Interfaces	SMA
------------	-----

Physical

Operating Temperature	0 to 50 °C
Cable Length	1.0 m (3.3 ft)
Connector Type	SMA Male

Performance

Bandwidth	20 GHz
Nominal Impedance	50 Ω
Probe Type	Single-Ended Handheld TDR Probe
Attenuation	1x
Input Coupling	DC
Rise Time	< 18 ps
Probe Pitch	2.54 mm (0.1 in)
Tip Travel	0.5 mm (0.02 in)

Compatibility

Compatible TDR Modules	80E04, SD24
Compatible Mainframes	Tektronix DSA8300, DSA8200, TDS8200, TDS8000, CSA8000, CSA8200, and 11800 Series Sampling Oscilloscopes
ESD Protection Accessory Compatibility	80A02 EOS/ESD Protection Module

Environmental

Storage Temperature	-40 °C to +60 °C
Operating Altitude	Up to 4,500 m (15,000 ft)
Storage Altitude	Up to 15,000 m (50,000 ft)
Operating Humidity	Up to 95% RH (at or below +30 °C), up to 75% RH (above +30 °C to +50 °C)

Electrical Performance

Return Loss	>15 dB to 10 GHz, >10 dB to 20 GHz
-------------	------------------------------------

TECHNOLOGY

Time-Domain Reflectometry (TDR)

APPLICATIONS

High-speed printed circuit board (PCB) impedance testing, backplane characterization, and passive TDR measurement applications.

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.