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Test & Measurement

- sales
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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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20X Low Capacitance Probe

P6158



Features and Benefits

- 3 GHz Bandwidth
- 1.5 pF Input Capacitance
- 1 k Ω Input Resistance
- 22 V_{RMS} Max. Input Voltage
- Activates 20X Readout in TEKPROBE® Interface Instruments
- Compact Probe Tip Compatible with a Wide Range of Tektronix Accessories and Adapters



Applications

- High-speed Device Characterization
- Propagation Delays for ECL, CMOS, and Other Logic Circuitry and Devices
- Circuit Board Impedance Testing (TDR)
- High-speed Sampling Systems

The P6158 is a 3 GHz, 20X, low-capacitance probe. The P6158 is ideal for high-speed applications because of its ability to extend high-frequency response to 3 GHz. The BNC connector incorporates encoding to correct scale factors for 20X attenuation in oscilloscopes with TEKPROBE® interface. To facilitate SMD probing, the P6158 comes standard with SureFoot™ adapters. Additionally, the probe comes standard with an array of

short ground leads that insert minimal inductance into the signal path of the measured waveform. The compact probe head/tip assembly is compatible with the full line of 3.5 mm probe accessories. Although designed for the TDS 500/600/700 series oscilloscopes, the P6158 probe may be used with 11000 Series plug-ins, and the 11800 Series SD2X Sampling/TDR plug-ins.

CHARACTERISTICS

TYPICAL SPECIFICATIONS

Bandwidth (Probe Only) – DC to 3 GHz, –3 dB.
Rise Time – <100 ps.
Attenuation – Γ [20] (–26 dB).
Attenuation Accuracy – \pm 3%.
Input C – 1.5 pF.
Input R – 1 k Ω .
Output Termination – Terminate into 50 Ω .
Signal Delay – 5 ns.

PHYSICAL CHARACTERISTICS

Probe Tip/Head Style – 3.5 mm/Compact.
Output Cable Length – 1.2 m.

ENVIRONMENTAL CHARACTERISTICS

Temperature –
Operating: –15° C to +55° C (+5° F to +131° F).

Humidity –
High Operating: 55° C @ 95 to 97% RH.
Low Operating: 30° C @ 95 to 97% RH.

RECOMMENDED INSTRUMENTS

TDS 500/600/700 Series.
11000 Series.
11800 SD2X Sampling/TDR plug-ins.



Certified for CE Marking.



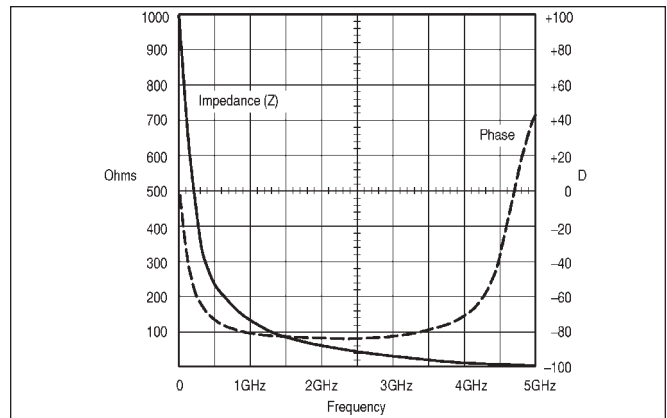
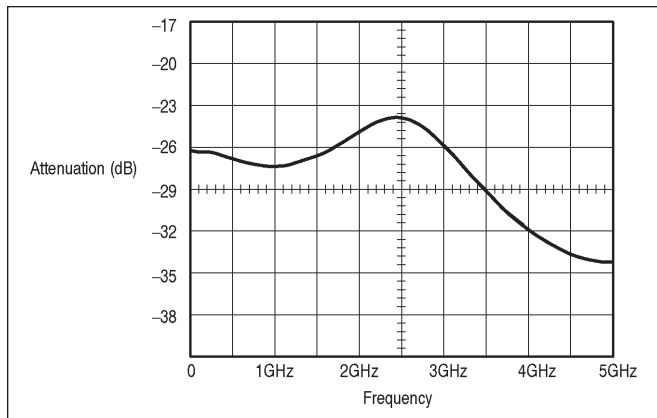
See Tektronix on the World Wide Web:
<http://www.tek.com>



Tektronix Measurement
products are manufactured
in ISO registered facilities.

20X Low Capacitance Probe

P6158



ORDERING INFORMATION

P6158
3 GHz Low Capacitance Probe.

Includes: P6158 Probe Tip Accessory Kit (020-2232-00) with: Attenuator Tip Cover (204-1049-00); 2 ea. 50 mil, 25 mil (0.65 mm), and 0.5 mm SureFoot™ Adapters; 2-in. Ground Lead (195-4240-00); Ground Collar (343-1003-01); 2 ea. Ground Tip Contact, 5 lengths w/cover shell (016-1077-00); 2 ea. Compact Probe Tip Circuit Board Test Points; 2 ea. Marker Set, Various Colors (016-0633-00); Instruction Manual (071-0123-00).

RECOMMENDED REPLACEMENT ACCESSORIES

SureFoot™ Adapter, Orange, 50 mil (12 ea.) – SF201A.

SureFoot™ Adapter, Blue, 0.65 mm/25 mil (12 ea.) – SF202A.

SureFoot™ Adapter, Red, 0.50 mm/20 mil (12 ea.) – SF203A.

Compact Probe Tip Circuit Board Test Points (25 ea.) – 131-5031-00.

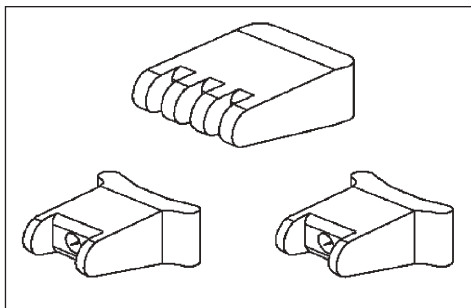


Figure 3. SF200A Series SureFoot™ adapters.

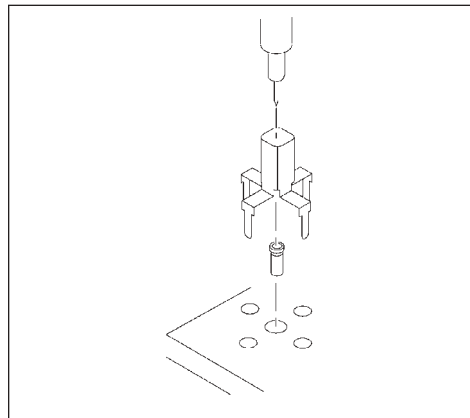


Figure 4. Compact probe tip circuit board test points.

For further information, contact Tektronix:

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