Tektronix Logic Analyzers Probes

P6417 • P6418 • P6419 • P6434

Features & Benefits

- <0.7 pF Total Capacitive Loading Minimizes Intrusion on Circuits
- 20 kΩ Input Resistance
- 6.5 V_{pp} Dynamic Range Supports a Broad Range of Logic Families
- General Purpose Probing Allows Flexible Attachment to Industry Standard Connections
- Connectorless Probing System Eliminates Need for On-board Connectors

Applications

Hardware Debug and Verification
Processor/Bus Debug and Verification
Embedded Software Integration, Debug and Verification

Leading Probing Solutions for Real-time Digital Systems Analysis

No test and measurement solution is complete without probing and considering its impact on your system and your measurement time. With the industry’s lowest probe loading, the P6419 logic analyzer probe protects the integrity of your signal — minimizing the impact on your design. Select from a variety of attachment mechanisms, including the “connectorless” compression connection that eliminates the need for on-board connectors.

For applications where circuit board space is limited, the high-density P6419 offers the smallest available footprint.

Flexible general-purpose probing, with support for 0.100 in. and 2 mm pin spacing, low input capacitance, and accessories for connecting to many industry standard connections.
Tektronix Logic Analyzers Probes
P6417 • P6418 • P6419 • P6434

Characteristics

<table>
<thead>
<tr>
<th></th>
<th>P6417</th>
<th>P6418</th>
<th>P6419</th>
<th>P6434</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probe Type</td>
<td>Single-ended Data Single-ended Data Single-ended Data Single-ended Data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single-ended Clock (General Purpose) Single-ended Clock (General Purpose) Single-ended Clock (Compression 17-channel) Single-ended Clock (Mictor 34-channel)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of Channels</td>
<td>17</td>
<td>17</td>
<td>17</td>
<td>34</td>
</tr>
<tr>
<td>Recommended Use</td>
<td>For most general-purpose applications that require more flexible signal attach</td>
<td>For most general-purpose applications</td>
<td>For Applications requiring good signal density and quick reliable attachment</td>
<td>Recommended for applications requiring many channels to be quickly connected in a small footprint</td>
</tr>
<tr>
<td>Attachment to Target System</td>
<td>Fits both 0.100 in and 2 mm square pin configurations</td>
<td>Compression Elastomer</td>
<td>Amp Mictor 34 Channel Connector</td>
<td></td>
</tr>
<tr>
<td>Probe Loading AC/DC</td>
<td>2 pF/20 kΩ to 0 V (TLA5000) 2 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx) 1.4 pF/20 kΩ to 0 V (Data) (TLA5000) 2 pF/20 kΩ to 0 V (TLA5000)</td>
<td>2 pF/20 kΩ to 0 V (TLA5000) 2 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx) 1.4 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx) 2 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx) 2 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input Range</td>
<td>–5 V to 8 V</td>
<td>±15 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable Length</td>
<td>1.8 m (6 ft.)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Ordering Information

P6417
17-channel General-purpose Probe with Single-ended Data/Clock with Separable Podlets and Accessories.
Includes: Podlet holders, 1-channel leadset, 8-channel single-ended leadset, SMT KlipChip™ grabber tips, probe labels, probe, instruction manual.

P6418
17-channel General-purpose Probe with Single-ended Data/Clock with Grouped Podlets and Accessories.
Includes: 1-channel leadset, 8-channel single-ended leadset, SMT KlipChip grabber tips, probe labels, probe instruction manual.

P6419
17-channel high-density Compression Probe, with Single-ended Data/Clock and Accessories.
Includes: Nut bars, elastomer holder (thin PCBs), elastomer holder (thick PCBs), probe labels, probe instruction manual.

P6434
34-channel High-density Mictor Probe with Single-ended Data/Clock and Accessories.
Includes: Latch housing assembly (Edge-mount), latch housing assembly (vertical), probe labels, probe label instructions, probe instruction manual.

Language Options
L0 – English Manuals.
L99 – No Manuals.

Accessories
TLAHRHA - High resistance adapter for use with P6417 and P6418 general purpose probes. Provides 1 MΩ input resistance for use in low power applications.
## Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>P6417</th>
<th>P6418</th>
<th>P6419*</th>
<th>P6434</th>
</tr>
</thead>
<tbody>
<tr>
<td>Podlet Holders (installed)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-ch Leadset, Single-ended</td>
<td>1</td>
<td>196-3479-00</td>
<td>1</td>
<td>196-3479-00</td>
</tr>
<tr>
<td>8-ch Leadset, Single-ended (Black)</td>
<td>2</td>
<td>196-3476-00</td>
<td>2</td>
<td>196-3476-00</td>
</tr>
<tr>
<td>(Optional) 1-ch Leadset, Single-ended (White)</td>
<td>1</td>
<td>196-3478-00</td>
<td>2</td>
<td>196-3478-00</td>
</tr>
<tr>
<td>(Optional) 8-ch Leadset, Single-ended Reduced Bias Voltage (White)</td>
<td>2</td>
<td>196-3477-00</td>
<td>1</td>
<td>196-3477-00</td>
</tr>
<tr>
<td>(Optional) 34-channel Probe Interface Kit with Barrel Connectors</td>
<td>1</td>
<td>020-2199-00</td>
<td>1</td>
<td>020-2199-00</td>
</tr>
<tr>
<td>(Optional) 34-channel Probe Interface Kit with Mini-PV Connectors</td>
<td>1</td>
<td>020-3000-00</td>
<td>1</td>
<td>020-3000-00</td>
</tr>
<tr>
<td>SMT KlipChip™ Grabber Tips, Bag of 20</td>
<td>1</td>
<td>SMG50</td>
<td>1</td>
<td>SMG50</td>
</tr>
<tr>
<td>(Optional) One-to-Two Adapter</td>
<td>1</td>
<td>013-0280-00</td>
<td>1 ea</td>
<td>013-0280-00</td>
</tr>
<tr>
<td>(Optional) Micro KlipChip Grabber Tip Adapter, 4 Each</td>
<td>1</td>
<td>SMK4</td>
<td>1 ea</td>
<td>SMK4</td>
</tr>
<tr>
<td>Nut bar (Used on &lt;0.093 in. thick PCB), Bag of 2</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Elastomer Holder Assembly, Thin (used on &lt;0.093 in. thick PCB), Bag of 2</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Elastomer Holder Assembly, Thick (used on &gt;0.093 in. thick PCB), Bag of 2</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Sheet of Probe Labels</td>
<td>1</td>
<td>334-9239-00</td>
<td>1</td>
<td>334-9979-00</td>
</tr>
<tr>
<td>One Latch Housing Assembly, Edge-mount</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>One Latch Housing Assembly, Vertical</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(Optional) 1 Each AMP Mictor Connector, Surface-mount</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(Optional) 21 Each — AMP Mictor Connector, Surface-mount</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td>(Optional) Mictor-on-PCB to P6419 Probe Adapter</td>
<td>–</td>
<td>–</td>
<td>–</td>
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<tr>
<td>(Optional) Compression-on-PCB to Mictor Adapter, 17 Channel</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>(Optional) Compression-on-PCB to Mictor Adapter, 34 Channel</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

*1 Recommend PEM KFS-256 or equivalent for >0.093 in. thick PCB.
Accessories

- 34-channel Probe Interface Kit with Barrel Connectors.

- 34-channel Probe Interface Kit with mini-PV Connectors.

- UPIK3M.

Contact Tektronix:
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