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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_{p-p} 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

COMPUTING

COMMUNICATIONS

VIDEO

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
Enabling Innovation

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▶ Characteristics

	P6417	P6418	P6419	P6434
Probe Type	Single-ended Data Single-ended Clock (General Purpose)	Single-ended Data Single-ended Clock (General Purpose)	Single-ended Data Single-ended Clock (Compression 17-channel)	Single-ended Data Single-ended Clock (Mictor 34-channel)
Number of Channels	17	17	17	34
Recommended Use	For most general-purpose applications that require more flexible signal attach	For most general-purpose applications	For Applications requiring good signal density and quick reliable attachment	Recommended for applications requiring many channels to be quickly connected in a small footprint
Attachment to Target System	Fits both 0.100 in and 2 mm square pin configurations		Compression Elastomer	Amp Mictor 34 Channel Connector
Probe Loading AC/DC	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 0V (Clock) (TLA5000) 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)	< 0.7 pF/20 kΩ to 0 V (TLA5000) < 0.7 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx)	2 pF/20 kΩ to 0 V (TLA5000) 2 pF/20 kΩ to 2.2 V (TLA600, TLA7N/P/Qx)
Input Range	–5 V to 8 V			
Max Voltage (Non-destruct)	±15 V			
Cable Length	1.8 m (6 ft.)			

▶ 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.

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▶ Accessories

Description	P6417		P6418		P6419*[1]		P6434	
	Quantity Per Probe	Part Number	Quantity Per Probe	Part Number	Qty Per Probe	Part Number	Qty Per Probe	Part Number
Podlet Holders (installed)	2	020-2196-00	–	–	–	–	–	–
1-ch Leadset, Single-ended	1	196-3479-00	1	196-3479-00	–	–	–	–
8-ch Leadset, Single-ended (Black)	2	196-3476-00	2	196-3476-00	–	–	–	–
(Optional) 1-ch Leadset, Single-ended (White)	1	196-3478-00	1	196-3478-00	–	–	–	–
(Optional) 8-ch Leadset, Single-ended Reduced Bias Voltage (White)	2	196-3477-00	2	196-3477-00	–	–	–	–
(Optional) 8-ch Leadset, Single-ended (Black) Set of 4	1	196-3431-00	1	196-3431-00	–	–	–	–
(Optional) 34-channel Probe Interface Kit with Barrel Connectors	1	020-2199-00	1	020-2199-00	–	–	–	–
(Optional) 34-channel Probe Interface Kit with Mini-PV Connectors	1	020-3000-00	1	020-3000-00	–	–	–	–
SMT KlipChip™ Grabber Tips, Bag of 20	1	SMG50	1	SMG50	–	–	–	–
(Optional) One-to-Two Adapter	1	013-0280-00	1 ea	013-0280-00	–	–	–	–
(Optional) Micro KlipChip Grabber Tip Adapter, 4 Each	1	SMK4	1 ea	SMK4	–	–	–	–
Nut bar (Used on <0.093 in. thick PCB), Bag of 2	–	–	–	–	1	020-2453-00	–	–
Elastomer Holder Assembly, Thin (used on <0.093 in. thick PCB), Bag of 2	–	–	–	–	1	020-2451-00	–	–
Elastomer Holder Assembly, Thick (Used on >0.093 in. thick PCB), Bag of 2	–	–	–	–	1	020-2452-00	–	–
Sheet of Probe Labels	1	334-9239-00	1	334-9979-00	1	335-1007-00	1	334-9381-00
One Latch Housing Assembly, Edge-mount	–	–	–	–	–	–	1	105-1088-00
One Latch Housing Assembly, Vertical	–	–	–	–	–	–	1	105-1089-00
(Optional) 1 Each AMP Mictor Connector, Surface-mount	–	–	–	–	–	–	1	131-6134-01
(Optional) 21 Each – AMP Mictor Connector, Surface-mount	–	–	–	–	–	–	1	020-2228-00
(Optional) Mictor-on-PCB to P6419 Probe Adapter	–	–	–	–	1	020-2457-00	–	–
(Optional) Compression-on-PCB to Mictor Adapter, 17 Channel	–	–	–	–	1	020-2455-00	–	–
(Optional) Compression-on-PCB to Mictor Adapter, 34 Channel	–	–	–	–	1	020-2456-00	1	020-2456-00

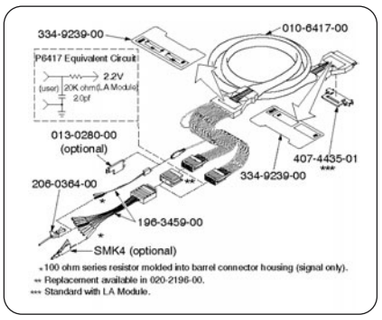
*[1] Recommend PEM KFS-256 or equivalent for >0.093 in. thick PCB.

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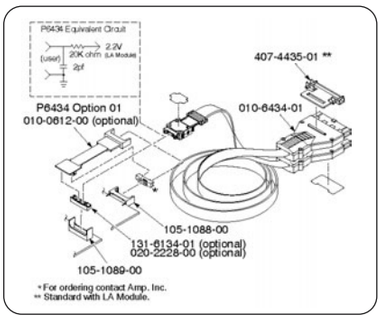
Tektronix Logic Analyzers Probes

▶ P6417 • P6418 • P6419 • P6434

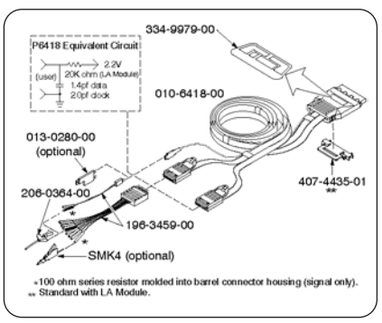
Accessories



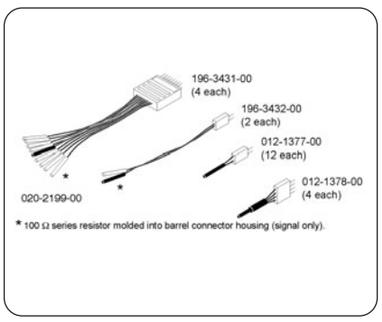
▶ *P6417.*



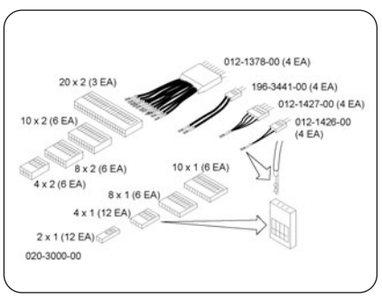
▶ *P6434.*



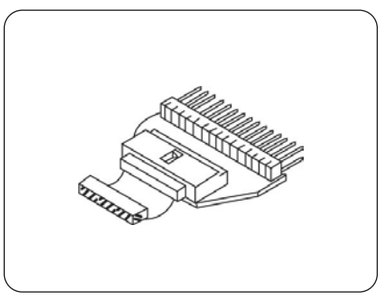
▶ *P6418.*



▶ *34-channel Probe Interface Kit with Barrel Connectors.*



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



▶ *UPIK3M.*

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