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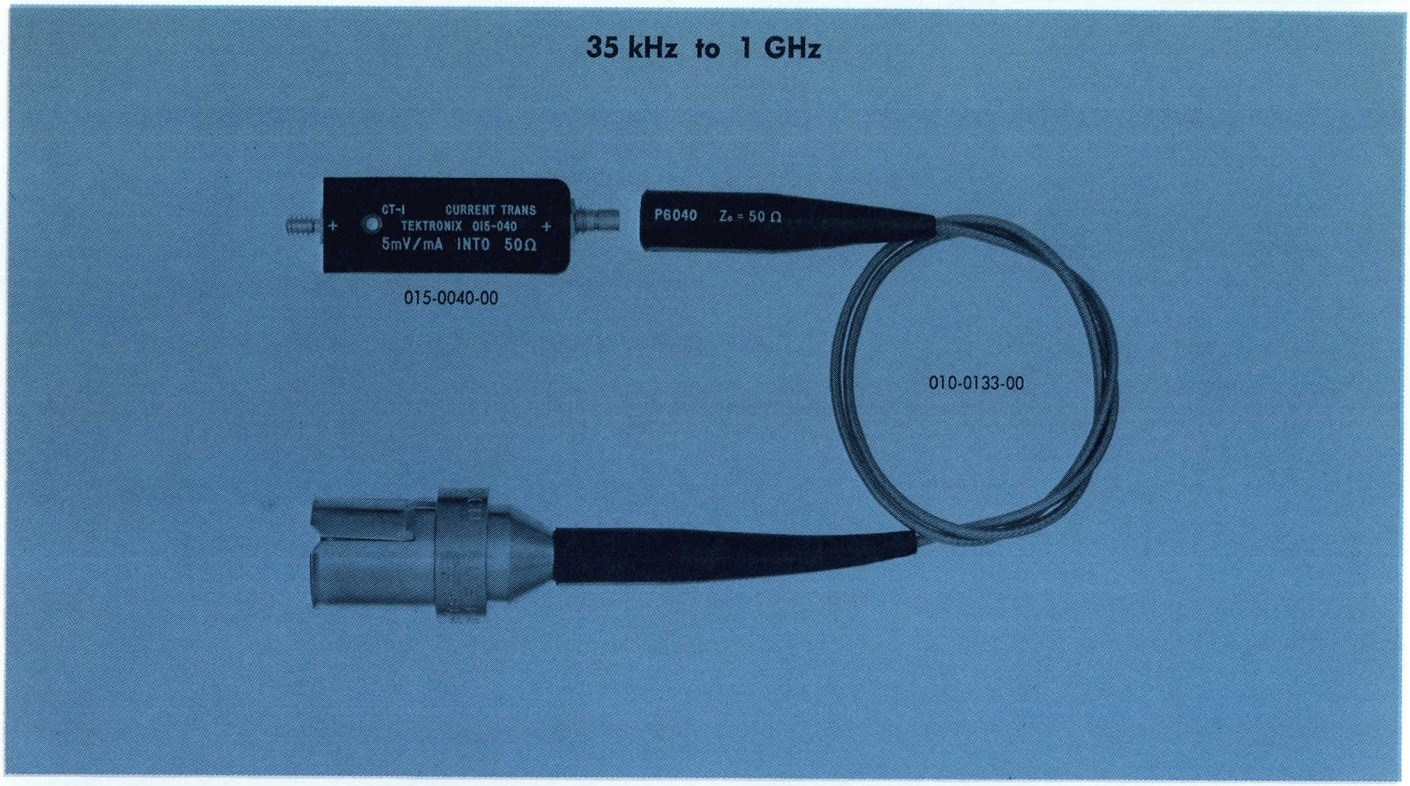
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Find the *Tektronix P6040* at our website: *Click HERE*

# AC Current Probe P6040/CT-1

## 35 kHz to 1 GHz




The P6040/CT-1 Current Probe is designed for use with Tektronix 50-Ω sampling units such as the Tektronix 1S1, 1S2, 3S1, 3S2, 3S5, 3S6 and 7S11 Sampling Plug-In Units. With the use of a 50-Ω termination the P6040/CT-1 can be used with wideband, non-sampling oscilloscopes for making fast-risetime current measurements.

Several CT-1 current transformers may be placed throughout the circuit and monitored by one or more P6040 Probes. For a longer length probe, additional 50-Ω cable can be used in series with the probe. Conductor sizes up to 0.065 inches in diameter can be monitored.

### P6040 PROBE

The P6040 Probe is an inter-connecting cable for the CT-1, used between the transformer and oscilloscope input.

If several CT-1 Transformers are in a circuit, the P6040 Probe can be used to monitor any one of them.

The P6040 can be used with other test-point connectors, such as Amphenol series 27 Sub-Minax or Sealectro Sub-Miniature RF.

**IMPEDANCE** is 50 ohms.

**ATTENUATION** is 1X.

**OUTPUT CONNECTOR** is a GR type.

**CABLE LENGTH** is 18 inches. Additional 50-Ω cable can be used in series with the probe. RG8/U or RG58A/U is recommended for best preservation of the CT-1 Transformer high-frequency response.

### CT-1 CURRENT TRANSFORMER

**SENSITIVITY** is 5 mV/mA into a 50-ohm load. Accuracy is better than ±3%.

**DECAY TIME CONSTANT** is 5 μs, approximated by 1% per 50 ns; limit, 1 μs.

**RISETIME** is less than 350 ps.

**FREQUENCY RESPONSE** is 35 kHz to 1 GHz (30% down points).

**INSERTION IMPEDANCE** with a 50-ohm termination is 1 ohm shunted by approximately 5 μH; 2 ohms shunted by approximately 5 μH without a 50-ohm termination.

**CAPACITIVE LOADING** to a bare wire passing through the CT-1 transformer is typically 1.5 pF for #14 gauge, 0.6 pF for #20 gauge.

**MAXIMUM VOLTAGE OF CIRCUIT UNDER TEST** is 1000 V DC.

**DIRECT CURRENT** reduces the L/R time constant by a factor of 2 at 0.6 A.

**PULSE CURRENT RATING** is 100 A peak, with an amp-second product of 1 A-μs. When the A-s product is exceeded, the core saturates reducing the CT-1 output to zero.

**RMS CURRENT RATING** is 500 mA maximum.

**TEMPERATURE RATING** is −25° C to +65° C.

**PHYSICAL DIMENSIONS** are $\frac{3}{8}$ x $\frac{9}{16}$ x $1\frac{13}{16}$ inches plus #6-32 x $\frac{1}{4}$-inch mounting stud. Net weight is approx 8 ounces.

**P6040/CT-1 CURRENT PROBE,** order 015-0041-00 . . **$40**
Includes instruction manual (070-0375-01).

**CT-1 CURRENT TRANSFORMER,** order 015-0040-00 . **$21**

**P6040 PROBE,** order 010-0133-00 . . . . . **$19**

### OPTIONAL ACCESSORY

GR to BNC, 50-Ω thru-line termination, order 017-0083-00.

U.S. Sales Prices FOB Beaverton, Oregon
Please refer to General Information page

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