

Accessories

P500CF CATHODE-FOLLOWER PROBE

The P500CF Probe has been developed for use with the Tektronix Type 524AD Oscilloscope. When used with oscilloscopes other than the Type 524AD, the P500CF requires use of a power supply such as the Tektronix Type 128 Probe Power Supply.

CHARACTERISTICS

PROBE GAIN is from 0.8 to 0.85.

ATTENUATION is 10X with attenuator head.

INPUT IMPEDANCE is 40 megohms paralleled by 4 pf when using the probe alone and 10 megohms paralleled by 2 pf when using 10X attenuator head.

HIGH FREQUENCY RESPONSE is 0.5-db down at 10 Mc.

LOW FREQUENCY RESPONSE is 3-db down at 5 cps.

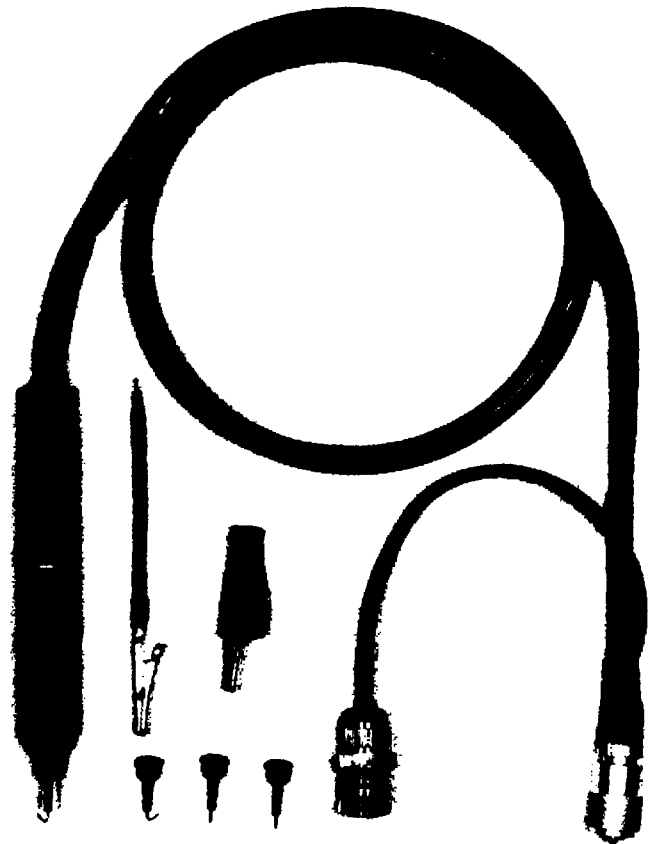
AMPLITUDE DISTORTION is less than 3% for peak amplitudes up to 5 v when using the probe alone, or up to 50 v when using the 10X attenuator head.

MAXIMUM INPUT VOLTAGE is approximately 5 v at 10 Mc or 2 v at 30 Mc for the probe alone and approximately 50 v at 10 Mc or 20 v at 30 Mc when using the 10X attenuator head.

HUM LEVEL is less than 1.5 mv at maximum sensitivity.

POWER SUPPLY REQUIREMENTS are regulated +120 v at 25 ma, regulated or unregulated +6.3 v at 150 ma, dc voltages.

PROBE CABLE is 42" long.



P500CF CATHODE-FOLLOWER PROBE (010-109) \$64

Each probe includes: 1—10X attenuator head, 1—5" ground strap, 2—hooked tips, 2—straight tips, 1—clip assembly, 2—instruction manuals.

P6013 HIGH-VOLTAGE PROBE

The Type P6013 provides 1000X attenuation as a means for oscilloscope measurements of high-amplitude waveforms or dc potentials up to 12 kv. Pulse frequency can be up to 100 kc at 12 kv.

Peak to peak voltage derating is necessary at CW frequencies higher than 100 kc.

The probe can be compensated for oscilloscope input capacities up to 60 pf.

CHARACTERISTICS

ATTENUATION is 1000X.

INPUT IMPEDANCE is 100 megohms paralleled by 3 pf.

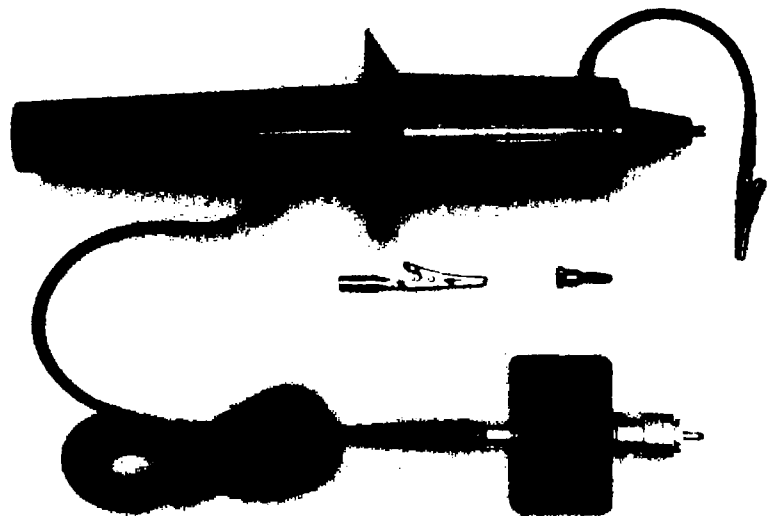
RISETIME is 14 nsec when using a Type 545A Oscilloscope and Type K Plug-In Unit.

MAXIMUM VOLTAGE RATING is 12 kv dc, peak pulse, or peak ac at frequencies below 100 kc. Voltage derating required for voltages at frequencies over 100 kc.

CABLE LENGTH is 10'.

P6013 PROBE (010-106) \$50

Each probe includes: 1—banana tip, 1—alligator tip, 1—7" ground strap, 2—instruction manuals.



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P6016 AC CURRENT PROBE

The P6016 Probe offers two current detecting systems for use with Tektronix wide-band oscilloscopes, the P6016 Probe and Type 131 Amplifier combination, or the P6016 Probe and Passive Termination combination.

The Probe and Amplifier combination measures currents over a wide range with risetimes to 20 nsec. The Probe and Passive combination is not quite as flexible, but has improved passband characteristic.

PROBE AND TYPE 131 AMPLIFIER

CHARACTERISTICS

SENSITIVITY with a 50 mv/div oscilloscope input is 1 ma/div basic sensitivity with 10 calibrated steps from 1 ma/div to 1 amp/div in a 1-2-5 sequence, accuracy within 3%. Variable control on the oscilloscope provides continuous uncalibrated ranging between steps.

NOISE is equivalent to a 100- μ amp, pk-to-pk, input signal.

RISETIME is 20 nsec with a Tektronix Type K Plug-In Unit and Type 540A-Series Oscilloscope.

PASSBAND is approximately 17 Mc at 3-db down.

DELAY TIME is 32 nsec or less measured at the 50% pulse amplitude points.

LOW-FREQUENCY RESPONSE is 50 cps at 30 db down.

AC CURRENT SATURATION RATING is 15 amps pk-to-pk, decreasing to 8 amps at 400 cps, 400 ma at 50 cps.

POWER REQUIREMENT is 105-125 v ac, approximately 0.5 watt at 117 v, or approximately 0.25 watt at 234 v ac.

PROBE AND PASSIVE TERMINATION

CHARACTERISTICS

SENSITIVITY is either 2 ma/mv or 10 ma/mv of oscilloscope sensitivity, accuracy within 3%.

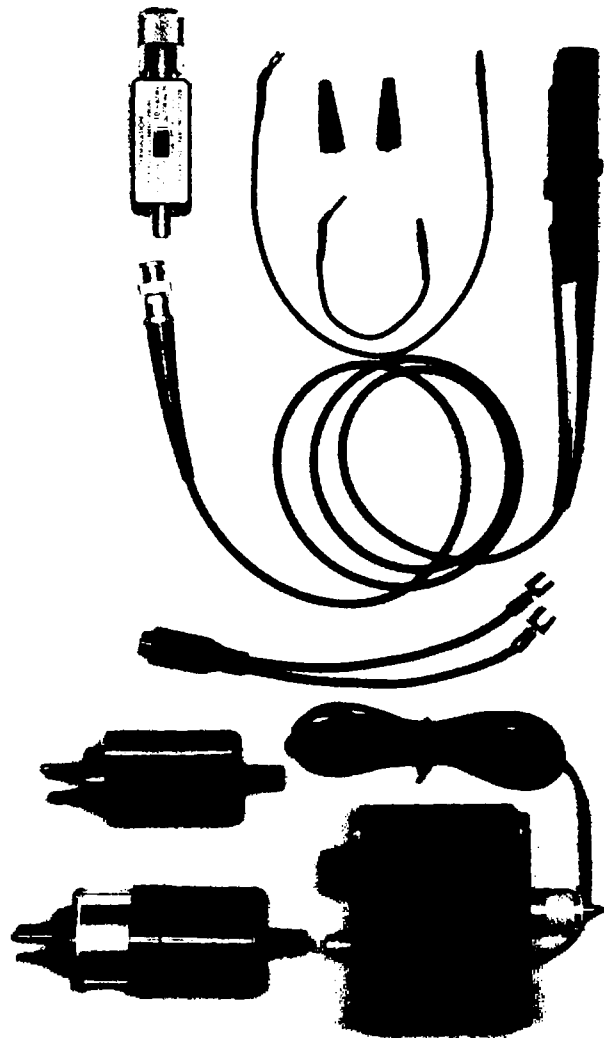
RISETIME is 17 nsec, $\pm 4\%$ maximum rolloff, overshoot, and ringing, with a Tektronix Type K Plug-In Unit and Type 540A-Series Oscilloscope.

PASSBAND is approximately 20 Mc at 3-db down.

DELAY TIME is 12 nsec or less measured at the 50% pulse amplitude points.

LOW-FREQUENCY RESPONSE at 3-db down is approximately 850 cps at 2 ma/mv (5% tilt of 10 μ sec square-wave pulse) and approximately 230 cps at 10 ma/mv (5% tilt of 35 μ sec square-wave pulse).

MAXIMUM CURRENT RATING is 15 amps pk-to-pk.



COMMON TO BOTH SYSTEMS

DC SATURATION THRESHOLD is 0.5 amp.

MAXIMUM BREAKDOWN VOLTAGE is 600 v.

INSERTION IMPEDANCE after a step function has been applied to the conductor under test is (1) 0.06 Ω after 50 nsec, (2) 0.04 Ω after 100 nsec, (3) 0.015 Ω after 1 μ sec, and (4) 0.006 Ω after 10 μ sec. Dependent upon size of the wire, the capacitance between the conductor and probe case is typically 1 pf.

P6016 PROBE (010-037)	\$ 75
PASSIVE TERMINATION (011-028)	\$ 15
PROBE AND PASSIVE TERMINATION (011-044)	\$ 90
TYPE 131 AMPLIFIER 117 v (015-011)	\$160
TYPE 131 AMPLIFIER 234 v (015-024)	\$160
PROBE AND AMPLIFIER (015-030)	\$235

Each probe includes, 1—5" ground lead, 1—12" ground lead, 2—minigator clips, 2—instruction manuals.

