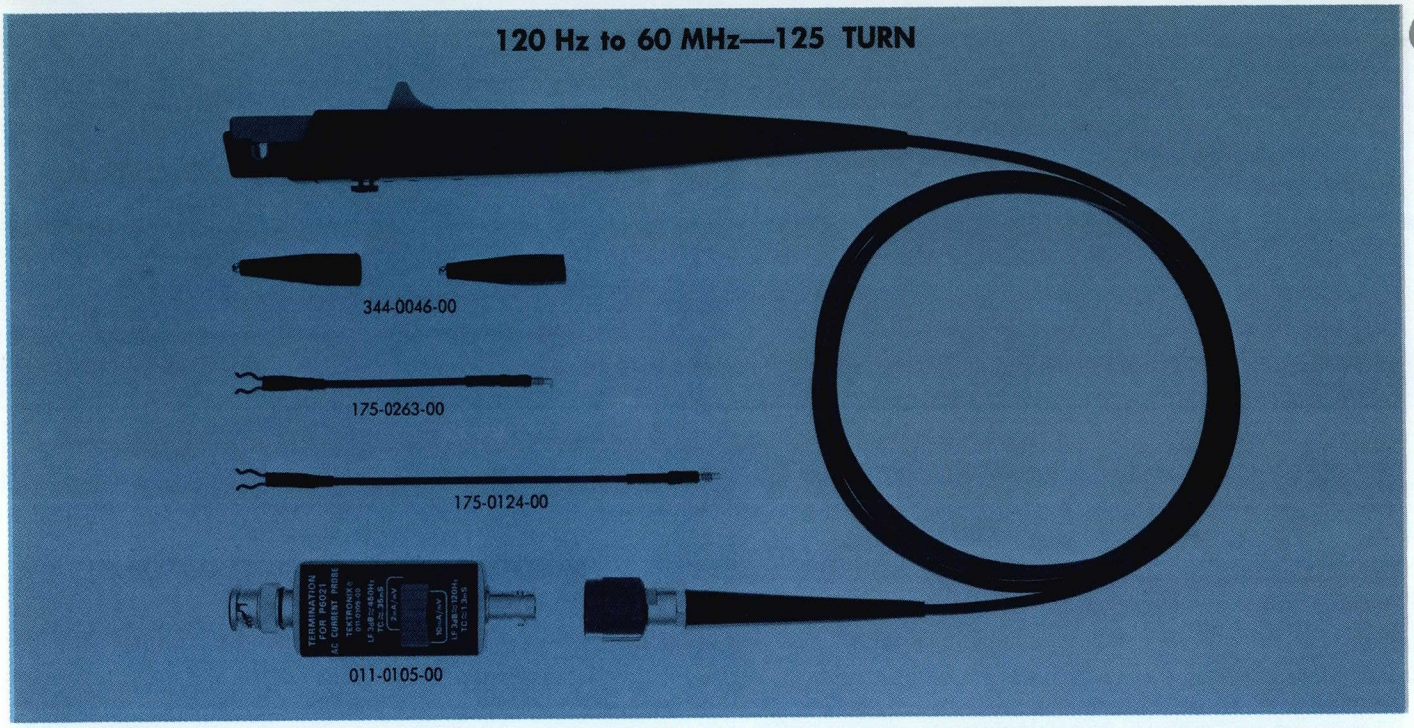
P6021 AC Current Probe



The P6021 is a 125-Turn AC Current Probe, with passive termination or Type 134 Amplifier, designed for use with real-time oscilloscopes. Neither the termination nor the amplifier is required to use the probe with the Tektronix 5030 and 5031 Oscilloscopes, 3A9 and 7A14 plug-in amplifiers. The P6021 provides the facility for accurate current measurements over a wide range of frequencies without breaking the circuit under test. Simply open the spring-loaded slide, place the conductor (up to 0.150-inch diameter) in the probe slot, and release the slide . . . no electrical connection required.

The shielded probe head is not grounded when the slide is in the open position, eliminating accidental grounding of the circuit under test. For general-purpose applications, the P6021 offers wide-band performance with excellent low-frequency characteristics. The probe's low-frequency capabilities and sensitivity can be expanded using the Type 134 Current Probe Amplifier. The P6021, with passive termination or with the amplifier, can be used with oscilloscopes having input resistances of 1-megohm or greater. Please turn to page 404 for ordering information.

PERFORMANCE CHARACTERISTICS

	P6021 PROBE WITH PASSIVE TERMINATION	P6021 PROBE WITH TYPE 134 AMPLIFIER
SENSITIVITY	2 mA/mV or 10 mA/mV; selected by termination switch. Accuracy ±3%.	Switched current amplifier steps from 1 mA/div to 1 A/div (with 50 mV/div oscilloscope setting). Accuracy ±3%.
SYSTEM BANDWIDTH†/RISETIME Oscilloscope Bandwidth 50 MHz 75 MHz 100 MHz	Bandwidth / Risetime 39 MHz / 9.0 ns 48 MHz / 7.3 ns 52 MHz / 6.7 ns	Bandwidth / Risetime 30 MHz / 11.6 ns 35 MHz / 10.0 ns 36 MHz / 9.6 ns
LOW-FREQUENCY RESPONSE	≤450 Hz at 2 mA/mV ≤120 Hz at 10 mA/mV	≤12 Hz
NOISE		≤150 μA
MAXIMUM CURRENT (CW)*	15 A peak-to-peak sinewave between 1.2 kHz and 5 MHz at 2 mA/mV; between 300 Hz and 5 MHz at 10 mA/mV	15 A peak-to-peak sinewave between 230 Hz and 5 MHz
MAXIMUM CURRENT (PULSE)*	250 A Peak, not to exceed 500 A-μs or 5 A RMS	10 A Peak, not to exceed 500 A-μs or 5 A RMS
MAXIMUM VOLTAGE	600 V (DC + peak AC)	600 V (DC + peak AC)
NET WEIGHT	≈1 lb	≈5 lb
PRICE	$121	$325

*Decrease oscilloscope sensitivity to make these measurements.

†All bandwidths stated are at —3 dB.