

BK Precision 30 MHz Dual-Trace Oscilloscope

Part No. 01BK2125

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Specifications	model 2125A
VERTICAL AMPLIFIERS (CH 1 and CH 2)	
Sensitivity	5 mV/div to 5 V/div, 1 mV/div to 1 V/div at x5
Attenuator	10 steps in 1-2-5 sequence. Vernier control provides full adjustment between steps
Accuracy	+3%, +5% at x5
Input Resistance	1 M Ω + 2%
Input Capacitance	25 pF +- 10pF
Frequency Response	5 mV to 5V/div: DC to 30 MHz (-3 dB) X5: DC to 10 MHz (-3 dB)
Rise Time	12 ns (Overshoot <= 5%)
Operating Modes	CH 1: CH 1, single trace
CH 2	CH 2, single trace
ALT	dual trace, alternating
CHOP	dual trace, chopped
ADD	algebraic sum of CH 1 + CH 2
Polarity Reversal	CH 2 only
Max. Input Voltage	400 V (DC to AC peak)
SWEEP SYSTEM	
Operating Modes	Main, mix (both main sweep and delay sweep displayed), or Delay (only delay sweep displayed), X-Y
Main Sweep Speed	0.1 us/div to 2.0 s/div in 1-2-5 sequence, 23 steps Vernier control provides fully adjustable sweep time between steps
Accuracy	+3%
Sweep Magnification	10X, +5%
Delayed Sweep Speed	0.1 ms/div to 0.1 s/div in 1-2-5 sequence, 23 steps
Holdoff	Continuously variable for Main sweep up to 10 times normal
Delay Time Position	Continuously variable to control percentage of display that is devoted to main and delay sweep
TRIGGERING	
Triggering Modes	AUTO (free run) or NORM, TV-V, TV-H
Trigger Source	CH 1, CH 2, ALT, EXT, LINE
Maximum External Trigger Voltage	300 V (DC + AC peak)
Trigger Coupling	AC 30 Hz to 30 MHz
	TV H Used for triggering from horizontal sync pulses
	TV H Used for triggering from vertical sync pulses

TRIGGER SENSITIVITY			
Coupling	Bandwidth	Int	Ext
Auto	100Hz - 40MHz	1.5 div.	$\geq 0.1V_{p-p}$
Norm	100 Hz - 40 MHz	1.5 div.	$\geq 0.1V_{p-p}$
TV-V	DC - 1kHz	0.5 div	$\geq 0.05V_{p-p}$
TV-H	1 kHz - 100 kHz	0.5 div	$\geq 0.05 V_{p-p}$
HORIZONTAL AMPLIFIER (Input through channel 1 input)			
X-Y Mode	Switch selectable using X-Y switch, CH 1: X axis CH 2: Y axis		
Sensitivity	Same as vertical channel 2		
Accuracy	Y-Axis: +3%. X-Axis: +6%		
Input Impedance	same as vertical channel 2		
Frequency Response	DC to 1 MHz typical (-3 dB), to 6 div horizontal deflection		
X-Y Phase Difference	3 ^o or less at 50 kHz		
Max. Input Voltage	Same as vertical channel 2		
CRT			
Type	Rectangular with internal graticule		
Display Area	8 x 10 div (1 div = 1 cm)		
Accelerating Voltage	2 kV		
Phosphor	P31		
Trace Rotation	Electrical, front panel adjustable		
COMPONENT TESTER			
Components Tested	Resistors, Capacitors, Inductors, and Semiconductors		
Test Voltage	6V rms maximum (open)		
Test Current	11 mA maximum (shorted)		
Test Frequency	Line Frequency (60Hz in USA)		
Calibrating Voltage	1 kHz (+-10%) Positive Square Wave, 0.2 V p-p (+-2%)		
Other Specifications			
Within Specified Accuracy	50 ^o to 95 ^o F (10 ^o to 35 ^o C), $\leq 85\%$ RH		
Full Operation	32 ^o to 104 ^o F (0 ^o to 40 ^o C), $\leq 85\%$ RH		
Storage	-4 ^o to 158 ^o F (-20 ^o to +70 ^o C)		
Power Requirements	Approximately 40 W		
<i>All other operating specifications are the same as model 2120A</i>			
Dimensions (WxHxD)	7x14.5x14.25" (180x370x440 mm)		
Weight	Approximately 17.2 lbs. (7.8 kg)		
Three Year Warranty			
Accessories			
SUPPLIED: Instruction Manual, Two PR-33A x1/x10 Probes or equivalent, AC Power Cord, Spare Fuse OPTIONAL: PR-32A Demodulator Probe, PR-37A x1/x10/REE Probe, LC-210A Carrying Case			