



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

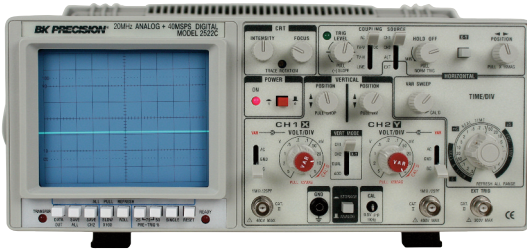
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# Data sheet

## 20 MHz Analog/Digital Storage Oscilloscope Model 2522C



B&K Precision's Model 2522C is one of the lowest cost digital storage / analog oscilloscopes in the industry, yet it includes all the basic features needed by most technicians and engineers.

Specifications	2522C
Storage Word Size	2048 x 8 bits/channel; (2 k/channel with direct sampling, 1 k/channel with equivalent time sampling)
Vertical Resolution	1 in 256, approximately 25 steps/div.
Horizontal Resolution	1 in 2048, approximately 200 samples/div.
Sampling Rate	40 M samples/sec to 4 samples/sec, reduced in proportion to time base. Direct sampling at time base settings of 20 $\mu$ s/div and slower, equivalent time sampling at time base settings of 10 $\mu$ s/div and faster
Time Base Expander	For storage of slow time events, time base steps 10 ms/div and slower have selectable 1/1 or 1/100 rate. 1/100 rate expands time base from 1 sec/div to 50 sec/div in 1-2-5 sequence
Equivalent time Sampling Bandwidth	20 MHz for repetitive waveforms
Dot Joining	Linear interpolation between samples
<b>DIGITAL DISPLAY MODES</b>	
Roll	Stored data and display updated continually
Refresh	Stored data and display updated by triggered sweep
Hold	Freezes channel 1 and channel 2 data immediately
Save CH 2	Freezes channel 2 data immediately.
Pretrigger Storage	Available in single shot mode, switchable to 0% or 50%.
LED Indicators	Trigger, Arm, Data Transfer
<b>I/O Interface</b>	
USB host port (rear panel)	Save screen images to USB flash memory
<b>ANALOG MODE SPECIFICATIONS</b>	
VERTICAL AMPLIFIERS (CH 1 and CH 2)	
Sensitivity	5 mV/div to 5 V/div in 1-2-5 sequence, 10 steps. Vernier control provides fully adjustable gain between steps. Pull x5 increases maximum sensitivity to 1 mV/div (at reduced bandwidth)
Accuracy	$\pm 3\%$ , $\pm 5\%$ at x5 MAG
Input Resistance	1M $\Omega$ $\pm 2\%$
Input Capacitance	25pF + 10pF
Frequency Response	5 mV to 5 V/div: DC to 20 MHz (-3 dB) x5: DC to 10MHz (-3dB)
Rise Time	Approximately 17.5 ns (overshoot <3%)
Polarity Reversal	CH 2 only
Maximum Input Voltage	400 V (DC + AC peak)
<b>MAXIMUM UNDISTORTED AMPLITUDE</b>	
DC-to-20 MHz	4 divisions
DC-to-10 MHz	8 divisions
<b>OPERATING MODES</b>	
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

- 20 MHz analog bandwidth
- 40 MS/s sampling rate each channel
- 2 k memory per channel
- USB host port for saving screen images to USB flash drives
- 1 GHz equivalent time sampling (at 0.1  $\mu$ s/div)
- Pretrigger capture



<b>SWEEP SYSTEM</b>	
Sweep Speed	0.1 $\mu$ s/div to 2 s/div in 1-2-5 sequence, 23 steps. Vernier control provides fully adjustable sweep time between steps
Accuracy: +3%	Sweep Magnification: 10X, +6%
Hold off	Variable
<b>TRIGGERING</b>	
Modes	AUTO (free run) or NORM. Source: CH1, CH2, ALT, EXT, LINE.
Maximum External Trigger Voltage	200V (DC + AC peak)
Sensitivity	Internal - 0.5 division, External - 500 mV
<b>TRIGGER COUPLING</b>	
AC	30 Hz to 30 MHz.
TV H/HF:	Used for triggering from horizontal sync pulses. Low frequencies are attenuated.
TV V DC/LF:	Used for triggering from vertical sync pulses. High frequencies are attenuated. Direct coupled.
<b>HORIZONTAL AMPLIFIER(Input thru CH 1 Input)</b>	
X-Y Mode	Switch selectable using X-Y switch CH 1: X axis CH 2: Y axis
Sensitivity	Same as vertical channel 1
Accuracy	Y-Axis: $\pm 3\%$ , X-Axis: $\pm 6\%$
Input Impedance	Same as vertical channel 1
Frequency Response	DC to 2 MHz typical (-3 dB) (to 6 divisions horizontal deflection)
X-Y Phase Difference	Approximately 3° at 50 kHz
Maximum Input Voltage	Same as vertical channel 1
<b>CRT</b>	
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
<b>ENVIRONMENT</b>	
Within Specified Accuracy	50° to 95°F (10° to + 35°C), 85% maximum RH
Full Operation	32° to 104°F (0° to + 40°C), 85% maximum RH
Storage	-4° to 158°F (-20° to + 70°C)
<b>General</b>	
Analog Output	Analog sample of CH 2
Output Voltage	25 mV/div (nominal into 50 $\Omega$ load)
Output Impedance	Approximately 50 $\Omega$
Frequency Response	20 Hz to 10MHz, -3 dB into 50 $\Omega$
Cal/Probe Compensation	Voltage
Power Requirements	110 V/125/220/240 VAC, 50/60 Hz, approximately 60 W 0.5 Vp-p +3% square wave, 1 kHz nominal
Dimensions (HxWxD)	5.2 x 12.8 x 15.6" (132 x 324 x 397 mm)
Weight	19 lb (8.6 kg.)
<b>Three Year Warranty</b>	
Supplied Accessories	Instruction Manual, Two PR 33A x1/x10 Probes or equivalent, AC Power Cord, Spare Fuse
Optional Accessories	PR 32A Demodulator Probe, PR 37AG x1/x10/REF Probe, PR 100A x100 Probe, PR-55 High Voltage x 1000 Probe, LC 210A Carrying Case