

# SWEEP FUNCTION GENERATORS



- SK3000 : 3MHz SWEEP FUNCTION GENERATOR
- SK3200 : SK3000 plus 60MHz COUNTER
- SK5200 : 5MHz SWEEP FUNCTION GENERATOR with 60MHz COUNTER



SK5200	SK3200	SK3000
<b>A. General Specification:</b>		
<b>(1) Generator</b>		
Frequency: 0.05Hz~5MHz	Frequency: 0.5Hz~3MHz	Frequency: 0.5Hz~3MHz in display by 5 digits LED, Max. resolution 0.001Hz
8 Range Control by rotary switch	6 Range Control by rotary switch	No Display
Waveform output: Sine, Square, Triangle, Ramp, Positive Pulse and Negative Pulse		
Designed for adjustable		
Stability: 0.1% ~15 minutes after switch "ON", 0.2% ~24 hours after switch "ON"		
DC Offset: ±10V (No Load), ±5V (50 Ω Load), continuously adjustable, controlled by offset switch		
<b>(2) Counter</b>		
Display: 5digit 0.36" LED, Max. Resolution: 0.001Hz,		N/A
Display unit: Hz/KHz (Automatically controlled by CPU)		
<b>(3) Common Specification</b>		
Limits of Operation: 0°C ~ 40°C, 10% ~ 80% R.H., Storage Environment: -20°C ~ 70°C, 0% ~ 90% R.H.		
Power Source: AC 115V (±10%) 50/60Hz, 600mA FUSE or AC 230V (±10%) 50/60Hz, 300mA FUSE		
Power Consumption: 25W, Ventilation: DC 12V/ 100mA Fan		
Dimension: 275 x 90 x 300mm, Weight: 2.5KGs Net, Accessory: Power Cord, Operation Manual		
<b>B. Triangle Wave</b>		
Frequency: 0.05Hz ~ 5MHz	Frequency: 0.5Hz ~ 3MHz	
5digit LED display, Max. resolution 0.001Hz	N/A	
Symmetry: 50% (Rise wave) to 50% (Fall wave)		
<1%, 1Hz ~ 100KHz	<2%, 1Hz ~ 100KHz	
Linearity: <1%, (1Hz ~ 100KHz)		
<b>C. Sine Wave</b>		
Frequency: 0.05Hz ~ 5MHz	Frequency: 0.5Hz ~ 3MHz	
5digit LED display, Max. resolution 0.001Hz	N/A	
Distortion: <1%, 1Hz ~ 100KHz	Distortion: <2%, 1Hz ~ 100KHz	
Harmonic Ratio: <30dB, 100KHz ~ 3MHz, Frequency Response: <0.1dB, up to 100KHz.		
<1.5dB, 100KHz to 5MHz	<1dB, 100KHz to 3MHz	

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<b>D. Square Wave</b>		
Frequency: 0.05Hz ~ 5MHz,	Frequency: 0.5Hz ~ 3MHz	
5digit LED display, Max. resolution 0.001Hz	N/A	
Symmetry: 50% (Positive half) to 50% (Negative half), <2%, 1Hz ~ 100KHz		
Rise time: <60ns (20Vp-p, No load)	Rise time: <90ns (20Vp-p, No load)	
<b>E. Ramp Wave</b>		
Frequency: 0.05Hz ~ 4.5MHz	Frequency: 0.5Hz ~ 2.5MHz,	
5digit LED display, Max. resolution 0.001Hz	N/A	
8 range selected by Rotary Switch	6 range selected by Rotary Switch	
Symmetry: 90% (Rise) to 10% (Fall) Continuously adjustable	Symmetry: 80% (Rise wave) to 20% (Fall wave), <5%, 1Hz ~ 100KHz	
Linearity: <1%, (0.1Hz ~ 100KHz)	Rise Wave Linearity: <2%, 1Hz~100KHz	
<b>F. Positive Pulse</b>		
Frequency: 0.05Hz ~ 4.5MHz	Frequency: 0.5Hz ~ 2.5MHz,	
5digit LED display, Max. resolution 0.001Hz,	N/A	
Width: 0.4sec ~ 100ns, continuously adjustable		
Symmetry: 1:1 to 10:1 continuously adjustable 1Hz ~ 100KHz	Symmetry: 20% to 80%, <5%, 1Hz ~ 100KHz	
Reverse: Pull the Rev. Switch to make Negative Pulse Output	Frequency: 0.5 ~ 2.5 MHz	
<b>G. DC</b>		
Output Voltage: +10V to -10V continuously adjustable by OFFSET switch	N/A	
<b>H. Main Output</b>		
Output Impedance: 50 Ω, <2% Accuracy, Max. Output: 20Vp-p (No-load), ±1Vp-p, 10Vp-p (50 Ω load), ±0.5V		
Min. Output: 0.1Vp-p (No-load), and 0.05Vp-p (50 Ω load), Attenuator: One -20dB (1/20) Attenuator, <2% Accuracy		
<b>I. Synchronous Output</b>		
Output Impedance: 50 Ω, <2% Accuracy, Output Level: TTL level, >3Vp-p amplitude, Fan out: >20		
Rise Time: <30ns	Rise Time: <60ns	
<b>J. VCF Input</b>		
Input Impedance: 0~10V, Input Frequency: DC ~ 1KHz		
Input Frequency Variety: 1:1 to 1:100	Input Frequency Variety: 1:1 to 1:1000	
<b>K. Sweep Synchronous output</b>		
Output Impedance: 1K Ω, <2% Accuracy, Output Waveform: Linear or Log Sweep Ramp Wave		
Output Amplitude: 10Vp-p (Non load) or 5Vp-p(1K Ω load), Output Frequency: 0.2Hz ~ 100Hz continuously adjustable		
<b>L. Sweep Generator</b>		
Sweep Form: Linear or Log Switchable, Sweep Speed: 5sec ~ 10ms, continuously adjustable, Sweep Width: 1:1 ~ 1:100		
<b>M. Counter</b>		
Display: 5 digits, 0.36" Red LED display, Max. Resolution: 0.001Hz		N/A
Display Unit: Hz / KHz Auto range, Time Base: 20MHz		
Temp. Coefficient: <20ppm / °C, Accuracy: < 0.02% ± 1 digit		
Power Supply: +5V, 160 mA		
<b>Inter Counter</b>		
Range: Auto ranging with 4 resolution, 0.001Hz / 0.01Hz / 0.001KHz / 0.01KHz, Auto control by CPU		
Display: 0.500Hz ~ 5000.0KHz, Auto-select by CPU		
Gate Time: Variable, 0.25 sec ~ 5 sec, Auto-setting	Gate Time: Variable, 0.25 sec ~ 2 sec, Auto-setting	
Min. Display Digits: 4 digits		
<b>External Counter</b>		
Max. Input Voltage: <150Vrms, Input Impedance: 1M Ω, <2%,		
Input Frequency: 0.2Hz ~ 60MHz Attenuator: *20 (-26dB) Attenuator		
Coupling: HF - For 100KHz up frequency		
LF - with 100KHz filter, for the frequency lower than 100KHz		
Range: Same as internal counter, Min. Display Digits: 4 digits		
Gate Time: 0.25 sec ~ 10 sec, Auto-setting depends on the input frequency		
Sensitivity: >30m Vrms (1MHz)		