



SDG800 Series - Features and Benefits



Delivery Detail: 1 week
Payment Terms: T/T, Western Union



- 3.5 inch TFT-LCD display with single channel
- Frequency range from 1μHz to 5/10/30MHz
- 125MSa/s sample rate, 14bit vertical resolution
- 5 types of standard output waveform, built-in 46 arbitrary waveforms
- Provide 10 nonvolatile storage spaces for user's arbitrary waves
- Modulation functions: AM, DSB-AM, FM, PM, FSK, ASK, PWM, Sweep, Burst
- Abundant input/output: waveform output, Synchronous signal output, external trigger input.
- Supplied with powerful arbitrary editing software
- Support remote control
- Standard interfaces: USB Device, USB Host

Specifications	SDG805	SDG810	SDG830
Frequency Specification			
Waveform	Sine, Square, Ramp, Pulse, Gaussian Noise. 46 built-in arbitrary waveforms(include DC)		
Sine	1μHz~5MHz	1μHz~10MHz	1μHz~30MHz
Square	1μHz~5MHz	1μHz~10MHz	1μHz~10MHz
Pulse	500μHz~5MHz		
Ramp/Triangular	1μHz~300kHz		
Gaussian white noise	>5MHz (-3dB)	>10MHz(-3dB)	>30MHz (-3dB)
Arbitrary	1μHz ~ 5MHz		
Resolution	1μHz		
Accuracy	Within 90days±50ppm within 1 year ±100ppm 18°C~28°C		
Temperature coefficient	<5ppm/°C		
Sine Spectrum Purity			
Harmonic Distortion	DC~1MHz:<-60dBc	1MHz~10MHz:<-55dBc	10MHz~30MHz:<-50dBc
Total harmonic waveform distortion	DC~20kHz 1Vpp<0.2%		
Spurious signal(non-harmonic)	DC~1MHz:<-70dBc	1MHz~10MHz:<-60dBc	10MHz~30MHz:<-55dBc
Phase noise	10kHz Offset,-108dBc/Hz(typical value)		
Square			
Rise/fall time	<24ns(10% ~ 90%)		
Overshoot	<5%(typical,1kHz,1Vpp)		
Duty Cycle	20%~80%		
Asymmetric	1% of period+20ns(typical,1kHz,1Vpp)		
Jitter	500ps + 0.001% of period		
Ramp/Triangle			
Linearity	<0.1% of Peak value output(typical,1kHz,1Vpp,100% symmetric)		
Symmetry	0%~100%		
Pulse			
Pulse width	16ns, Min. 1ns resolution		
Rise/Fall time	20ns~1.6ks (10% ~ 90%,typical)		
Duty Cycle	0.1%Resolution		
Overshoot	<5%		
Jitter(pk-pk)	500ps + 0.001% of period		



Specifications	Trigger Input	
	Input Level	TTL compatible
	Slope	Up or down
	Pulse width	>100ns
	Input impedance	>5kΩ,DC coupling
	SYNC Output	
	Voltage level	TTL compatible
	Pulse width	>50ns
	Output impedance	50Ω(typical)
	Max. frequency	2MHz
Interface		
Standard Interface	USB Device, USB Host	

General Specification	Display type	3.5inch TFT-LCD
	Resolution	320×RGB×240
	Color depth	24bit
	Contrast Ratio	350:1(typical)
	Dimension	229(W)mm*105(H)mm*281(D)mm
	Weight	N.W: 2.6kg; G.W: 3.4kg