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DDS Function Generator



SFG-2104/2107/2110 (4/7/10MHz)



SFG-2004/2007/2010 (4/7/10MHz)

FEATURES

* DDS Technology and FPGA Chip Design
* Frequency Range:0.1Hz~4MHz/7MHz/10MHz
* High Frequency Accuracy : ±20ppm
* High Frequency Stability : ±20ppm
* Frequency Resolution :100mHz
* Low Distortion Sine Wave : -55dBc, 0.1Hz~200KHz
* Built-in 6 Digits, 150MHz/High Resolution Counter (SFG-2100 Series Only)
* INT/EXT AM/FM Modulation (SFG-2100 Series Only)
* LIN/LOG Sweep Mode (SFG-2100 Series Only)
* Front Panel Setting Save/Recall with 10 Groups of Setting Memories

SPECIFICATIONS

		SFG-2000 Series			SFG-2100 Series		
		SFG-2004	SFG-2007	SFG-2010	SFG-2104	SFG-2107	SFG-2110
MAIN	Frequency Range(For Sine, Square)	0.1Hz~4MHz	0.1Hz~7MHz	0.1Hz~10MHz	0.1Hz~4MHz	0.1Hz~7MHz	0.1Hz~10MHz
	Range(For Triangle)	0.1Hz~1MHz					
	Resolution	0.1Hz					
	Stability	± 20 ppm					
	Accuracy	± 20 ppm					
	Aging	± 5 ppm / year					
	Output Function	Sine, Square, Triangle					
	Amplitude Range	10Vpp(into 50Ωload)					
	Flatness(Sinewave relative to 1kHz)	＜± 0.3dB,0.1Hz～1MHz; ＜± 0.5dB,1MHz～4MHz; ＜± 2dB, 4MHz～10MHz					
	Impedance	50Ω±10%					
	Attenuator	-20dB±1dBx2					
	DC Offset	＜-5V～＞+5V(into 50Ωload)					
	Duty Control Range	20% to 80% below 1MHz (Square wave only)					
	Resolution	1%					
	Display	9 digits LED display					
SINE WAVE	Harmonics Distortion	-55dBc,0.1Hz～200kHz; -40dBc,0.2MHz～4MHz; -30dBc,4MHz～10MHz (Specification applied from MAX. to 1/10 level)					
TRIANGLE WAVE	Linear	≧98%,0.1Hz～100kHz;≧95%,100kHz～1MHz					
SQUARE WAVE	Symmetry	± 1% of period +4ns to 0.1Hz～100kHz;Rise or Fall Time ≦25ns at maximum output.(into 50Ωload)					
CMOS OUTPUT	Level	4Vpp±1Vpp～14.5Vpp±0.5Vpp adjustable; Rise or Fall Time; ≦120ns					
TTL OUTPUT	Level	≧3Vpp; Fan Out; 20 TTL load; Rise or Fall Time; ≦25ns					
SWEEP OPERATION	Sweep/Rate Sweep/Time Sweep/Mode	—			100:1 ratio max. and adjustable 0.5Sec～30Sec adjustable Lin./Log. switch selector		
AMPLITUDE MODULATION	Depth & MOD. Frequency Carrier BW EXT Sensitivity	—			0～100% ; 400Hz(INT),DC～1MHz(EXT) 100Hz～5MHz(-3dB) ≦10Vpp for 100%modulation		
FREQUENCY MODULATION	Deviation & MOD. Frequency EXT Sensitivity	—			0～±5% ; 400Hz(INT),1kHz(EXT) ≦10Vpp for 10% modulation		
FREQUENCY COUNTER	Range Accuracy Time base Resolution Input Impedance Sensitivity	—			5Hz～150MHz Time base accuracy±1count ±20ppm(23℃±5℃) after; 30 minutes warm up The maximum resolution is 10nHz for 1Hz and 0.1Hz for 100MHz 1MΩ/150pf ≦35mVrms(5Hz~100MHz) ≦45mVrms(100MHz~150MHz)		
STORE/RECALL FUNCTION		10 groups of Setting memories					
POWER SOURCE		AC115V, 230V±15%,50/60Hz					
ACCESSORIES		Instruction manualx1,Power Cord x 1,GTL-101x1			Instruction manualx1,Power Cord x 1,GTL-101x2		
DIMENSION & WEIGHT		107(W)x266(H)x293(D) m/m;Approx. 3.1kg			107(W)x266(H)x293(D) m/m;Approx. 3.2kg		

ORDERING INFORMATION

SFG-2004	4MHz DDS Function Generator	**SFG-2104**	4MHz DDS Function Generator with Counter, Sweep & AM, FM Modulation
SFG-2007	7MHz DDS Function Generator	**SFG-2107**	7MHz DDS Function Generator with Counter, Sweep & AM, FM Modulation
SFG-2010	10MHz DDS Function Generator	**SFG-2110**	10MHz DDS Function Generator with Counter, Sweep & AM, FM Modulation

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