

HG2461 SERIES



Features

- .Signal frequency up to 600MHz
- .DDS Technology provides for a superior signal with low distortion and high stability
- .Both RF output and function output
- .3.5" QVGA color LCD and soft keys
- .Produced by SMT, smart metal case
- .1 μ Hz frequency resolution
- .RS 232 interface and USB, GPIB optional
- .Versatile modulation
AM, FM, PM, FSK, PSK, Sweep, Burst
- .Variety of waveforms
Sine, square, pulse, triangle, ramp



HG2461 I

Technical Data		HG2461 I/II/III/IV/V/VI	
RF output (output A)			
Frequency range		100 μ Hz~80MHz	HG2461 I
		100 μ Hz~110MHz	HG2461 II
		100 μ Hz~150MHz	HG2461 III
		100 μ Hz~200MHz	HG2461 IV
		100 μ Hz~300MHz	HG2461 V
		100 μ Hz~600MHz	HG2461 VI
Frequency resolution		1 μ Hz	\leq 80MHz
		1Hz	$>$ 80MHz
Frequency stability		$\leq 5 \times 10^{-6}$	
RF output level		-127dBm~+13dBm	
RF output resolution		0.1dB	
Attenuator accuracy		± 2 dB	
Output impedance		50 Ω , VSWR $<$ 1.5	
Spectral purity	Harmonic	$<$ -30dBc	(output level \leq +4dBm)
	Non harmonic	$<$ -40dBc	(output level \leq +4dBm, deviation $>$ 5kHz)
	Sub harmonic	$<$ -40dBc	(output level \leq +4dBm)
	Residual FM	$<$ 100Hz	
AM Modulation	Frequency	int. 100mHz~10kHz	
		ext. 20Hz~10kHz	
	Depth	0~120%	(fc \leq 80MHz, level \leq +4dBm)
		0~80%	(fc $>$ 80MHz, level \leq +4dBm)
Resolution	0.1%		
FM Modulation	Frequency	int. 100 μ Hz~10kHz	(fc \leq 80MHz)
		int. 100 μ Hz~1kHz	(fc $>$ 80MHz)
	Deviation	fc/2	(fc \leq 80MHz)
		1 μ Hz~100kHz	(fc $>$ 80MHz)
	Resolution	100Hz	
Carrier frequency	\geq 9kHz		
Pulse Modulation (option)	Frequency	ext. DC~10MHz (TTL level)	
	Rise and fall	$<$ 15nS	
	On/Off	$>$ 65dB	
FSK Modulation	F1, F2 range	100 μ Hz~80MHz	(FSK rate $<$ 10kHz)
		80.000001MHz~120MHz	(FSK rate $<$ 2kHz)
		120.000001MHz~200MHz	(FSK rate $<$ 2kHz)
		200.000001MHz~300MHz	(FSK rate $<$ 2kHz)
Control mode		internal and external (TTL level, low-F1, high-F2)	

HF SIGNAL GENERATOR

Technical Data		HG2461 I/II/III/IV/V/VI
PSK Modulation	Carrier frequency	<80MHz
	P1, P2 range	0~360°
	Resolution	0.1°
	Alternation	0.1ms~800s
	Control mode	internal and external (TTL level, high-P2, low-P1)
Burst Modulation	Carrier frequency	<80MHz
	Burst count	1~10000 cycle ($\leq 800 \cdot f_c$)
	Alternation	0.1ms~800s
	Control mode	internal
		single
external (TTL level)		
Sweep	Sweep rate	1ms~800s (lin., $f_c \leq 80\text{MHz}$)
		100ms~800s (log., $f_c \leq 80\text{MHz}$)
	Stepping time	10ms~800s ($f_c > 80\text{MHz}$)
	Frequency range	100 μ Hz~80MHz
		80.000001MHz~120MHz
		120.000001MHz~200MHz
		200.000001MHz~300MHz
Sweep mode	lin. and log. ($f_c \leq 80\text{MHz}$)	
	Stepping ($f_c > 80\text{MHz}$)	
MOD Signal output	Frequency	100mHz~10kHz
	Waveform	sine
	Amplitude	5Vp-p $\pm 2\%$
	Impedance	620 Ω
Function output (output B)		
Frequency range	100 μ Hz~2MHz	
Resolution	100 μ Hz	
Accuracy	$\pm 5 \times 10^{-6}$	
Amplitude (sine)	100mVp-p~6Vp-p (high impedance)	
	50mVp-p~3Vp-p (50 Ω)	
Resolution	$\pm 0.1\text{mVp-p}$	
Accuracy	$\leq 5\% \pm 5\text{mVp-p}$ ($f \leq 100\text{kHz}$)	
Distortion	1% (2Vp-p, 1kHz)	
Impedance	50 Ω	
Waveform	Sine, square, triangle, ramp, pulse (rise and fall time $\leq 500\text{nS}$)	
A/B sine phase range	0.0~360.0°	
Power supply	110~127 VAC $\pm 10\%$, 220~240VAC $\pm 10\%$ 50Hz $\pm 2\text{Hz}$, 60Hz $\pm 2\text{Hz}$	
Dimensions(W×H×D)	255×170×370mm	
Weight	4kg	