HG2461 SERIES

CE

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
.1μHz 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	
RF output (output A)				
Frequency range			100μHz~80MHz	HG2461 I
			100μHz~110MHz	HG2461 II
			100μHz~150MHz	HG2461 III
			100μHz~200MHz	HG2461 IV
			100μHz~300MHz	HG2461 V
			100μHz~600MHz	HG2461 VI
Frequency resolution			1μHz	≤80MHz
			1Hz	>80MHz
Frequency stability			$\leqslant 5\times10^{-6}$	
RF output level			-127dBm~+13dBm	
RF output resolution			0.1dB	
Attenuator accuracy			±2dB	
Output impedance			50Ω,VSWR<1.5	
Spectral purity		Harmonic	<-30dBc	(output level≤+4dBm)
		Non harmonic	<-40dBc	(output level≤+4dBm, deviation>5kHz)
		Sub harmonic	<-40dBc	(output level≤+4dBm)
		Residual FM	<100Hz	
AM Modulation		Frequency	int. 100mHz~10kHz	
			ext.	20Hz~10kHz
		Depth	0~120%	(fc≤80MHz,level≤+4dBm)
			0~80%	(fc>80MHz, level≤+4dBm)
		Resolution	0.1%	
FM Modulation		Frequency	int. 100μHz~10kHz	(fc≤80MHz)
			int. 100μHz~1kHz	(fc>80MHz)
		Deviation	fc/2	(fc≤80MHz)
			1μHz~100kHz	(fc>80MHz)
		Resolution	100Hz	
Pulse Modulation (option)		Carrier frequency	≥9kHz	
		Frequency	ext.DC~10MHz (TTL level)	
		Rise and fall	<15nS	
		On/Off	>65dB	
FSK Modulation		F1, F2 range	100μHz~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)	

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