



MAXWELLON MX2461

100μHz~80/110/150/200/300MHz/600MHz

DDS High Frequency Signal Generator

2023

MX2461 Digital Synthetic High Frequency Standard Signal Generator, with a resolution of up to 1μHz (fc ≤ 80MHz), 1Hz (fc>80MHz). Frequency coverage of 100μHz~600MHz, with a level coverage of -127dBm ~ +13dBm, optional USB interface and GPIB interface. The panel adopts a 3.5 "QVGA color LCD display, making operation more intuitive and convenient. It is a new generation of high-performance synthetic signal generator.

■ Key Feature

- 3.5 "QVGA color LCD display, clear reading and easy operation
- Digital modulation technology
- Equipped with A and B output functions
- 120dB programmable attenuation, achieving microvolt signal output
- Automatic level control circuit, effectively ensuring stable output amplitude
- External standard frequency input, achieving higher frequency accuracy across the entire frequency range
- Carrier frequency, level, modulation can be stored and called
- SMT process production with high reliability
- Equipped with RS232 interface, optional USB and GPIB interfaces

■ Specification

Frequency Characteristics	
Frequency Range	100μHz~80MHz (MX2461-8) 100μHz~110MHz (MX2461-11) 100μHz~150MHz (MX2461-15) 100μHz~200MHz (MX2461-20) 100μHz~300MHz (MX2461-30) 100kHz~600MHz (MX2461-60)
Frequency Resolution	1μHz(fc≤80MHz); 1Hz(fc>80MHz)
Frequency Stability	±5×10 ⁻⁶
Output Power Range	-127dBm~+13dBm
Output Level Resolution	0.1dB
Attenuation Accuracy	±2dB
Output Impedance	50Ω, VSWR<1.5
Spectral Purity	
Harmonic	< -30dBc (output level ≤ +4dBm)
Subharmonics	< -40dBc (output level ≤ +4dBm)
Non Harmonic	< -40dBc (output level ≤ +4dBm, offset carrier ≥ 5kHz)
Residual FM	<100Hz (0.3~3kHz,rms)
AM	
Range	0~120% (frequency ≤ 80MHz, output level ≤ +4dBm)
	0~80% (frequency>80MHz, output level ≤ +4dBm)
Resolution	1%
Accuracy	± 7% Set value ± 1.5%
Rates	Internal 100mHz~10kHz (adjustable)
	External 20Hz~10kHz
Distortion	< 2%

FM	
Peak deviation	0~100kHz
Resolution	100Hz
Accuracy	± 5% Set value ± 50Hz
Rates	Internal 1kHz or 400Hz
Distortion	<2%
Modulation source	
Int Out	Frequency: 100mHz~10kHz Amplitude: 5Vpp ± 2% (AM only)
Ext In	Amplitude: 5Vpp(AM only)
Sweep Rates	
1ms~800s	
PSK	
0~360°(fc≤80MHz)	
Burst	
1-10000 cycles (fc ≤ 80MHz)	
General	
Dimensions	255mm×370mm×100mm(W×D×H)
Weight	5kg

■ Ordering Information

Model

Model	Name	Description
MX2461-8	Function/Arbitrary Generator	100μHz ~ 80 MHz
MX2461-11	Function/Arbitrary Generator	100μHz ~ 110 MHz
MX2461-15	Function/Arbitrary Generator	100μHz ~ 150 MHz
MX2461-20	Function/Arbitrary Generator	100μHz ~ 200 MHz
MX2461-30	Function/Arbitrary Generator	100μHz ~ 300 MHz
MX2461-60	Function/Arbitrary Generator	100kHz ~ 600 MHz

Standard

No.	Name	Qty.
1	BNC test cable	1 pc
2	BNC double clip cable	1 pc
3	Power cord	1 pc
4	Product User Manual	1 pc
5	Product Qualification Certificate	1 pc
6	0.5A/2220V fuse (installed in socket)	2 pc
7	RS232 connecting cable	1 pc
8	RS232 testing software CD	1 pc

Option

No.	Name	Qty.
1	Pulse Modulation	1 pc
2	USB communication cable	1 pc



MAXWELLON

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