Quality&**Precise**

MAXWELLON
1466

6kHz~13GHz/20GHz/33GHz/45GHz/53GHz/67GHz/90GHz/110GHz

Signal Generator

2023

MAXWELLON

The Maxwellom 1466 series signal generator is a universal testing instrument for microwave and millimeter wave tip testing. It has a wide frequency range, high signal spectrum purity, high accuracy, and a large dynamic range of power output. Coupled with a single machine dual RF channel design, it can meet various testing requirements of users. The rich built-in functions such as analog sweep, analog modulation, and pulse modulation make testing more convenient. Newly upgraded human-computer interaction, featuring a series of new features such as large screen touch graphics guided interaction, mobile browser access control, multi manufacturer power meter connection recognition, multi client deployment, SCPI command recording, and control interface customization, creating a sense of user testing happiness.

The Maxwellom 1466 series signal generator is an ideal choice for high standard testing from component level to system level in cutting-edge technology fields such as communication and aerospace.

Key Feature

Excellent RF Performance

Frequency coverage of 6kHz~13GHz/20GHz/33GHz/45GHz/53GHz/67GHz/90GHz/110GHz;
Excellent spectral purity, SSB-132 dBc/Hz (typical value, 10 GHz carrier 10kHz frequency offset), spurious<-80 dBc (10 GHz carrier);
Excellent broadband bottom noise, SSB-161 dBc/Hz (typical value, 20GHz carrier 30MHz frequency offset);
Large output power dynamic range, with a maximum dynamic range of -150dBm~+25dBm (settable);
Support AM, FM, ΦM and pulse modulation, with a minimum pulse width of 20ns for pulse modulation;
Support step sweep, list sweep, power sweep, and analog sweep;
Support single machine dual channel, each channel can be set independently.

Newly Upgraded Human-computer Interaction

Large screen touch graphic guided interaction, supporting user-defined menus;
Cross platform client and browser access control;
Real time recording of SCPI instructions and automatic generation of program controlled example engineering.

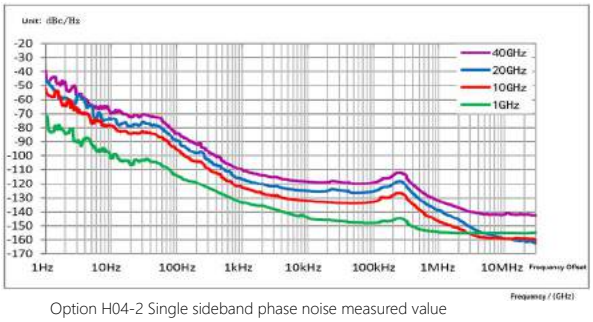
Excellent Performance

110ghz Coaxial Frequency Coverage

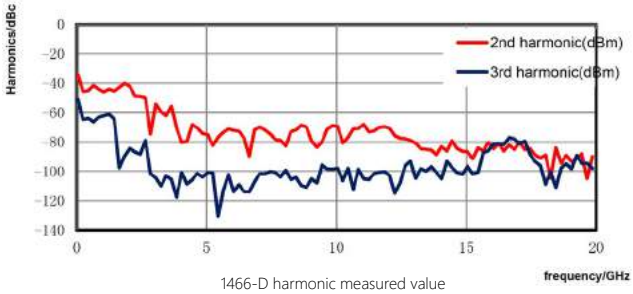
The Maxwellon 1466 series signal generator does not require an external frequency converter, and the coaxial output frequency covers 6kHz~110GHz, ensuring high-precision large dynamic range amplitude control. It has power accuracy and stability that cannot be achieved by external spread spectrum schemes. At the same time, it supports external Maxwellon 8240X series frequency converters, which can further expand the frequency to 750GHz. It is a powerful tool for efficiently conducting millimeter wave 5G communication RF consistency testing.

Excellent Spectral Purity

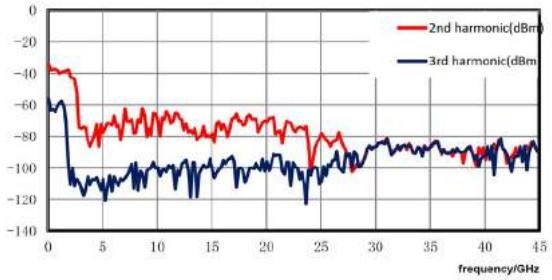
The Maxwellon 1466 series signal generator supports high-purity spectrum signal output:
SSB -145 dBc/Hz (typical value, 1 GHz carrier 10kHz frequency offset);
SSB -132 dBc/Hz (typical value, 10 GHz carrier 10kHz frequency offset);
SSB -161 dBc/Hz (typical value, 20 GHz carrier 30kHz frequency offset);
Spurious<-80 dBc (10 GHz carrier); Harmonic<-55dBc.



Option H04-2 Single sideband phase noise measured value



1466-D harmonic measured value

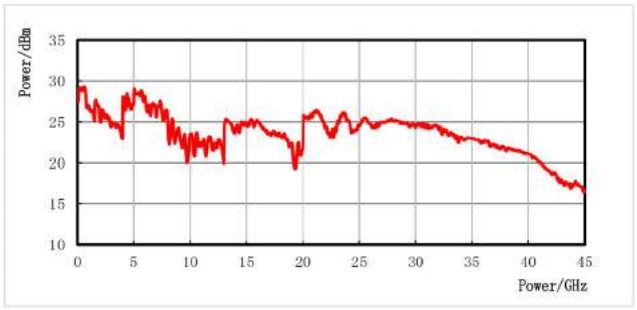


1466-G harmonic measured value

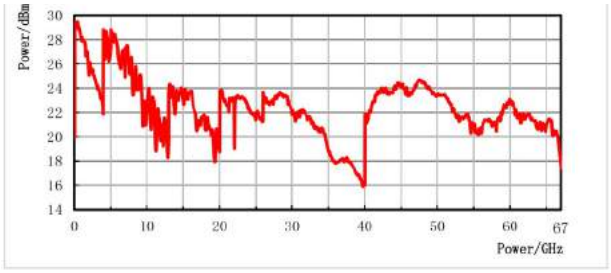
Large Dynamic Range, High Accuracy Power Output

The typical maximum output power values of the Maxwellon 1466 series signal generator are:
+27dBm at 5GHz,
+24dBm at 20GHz,
+25dBm at 30GHz,
+22dBm at 60GHz,
+3dBm at 110GHz,
The minimum output power is -150dBm (adjustable), and the dynamic range exceeds 170dB.
It has excellent power accuracy indicators, with a typical value of<0.5dB(below 20GHz).

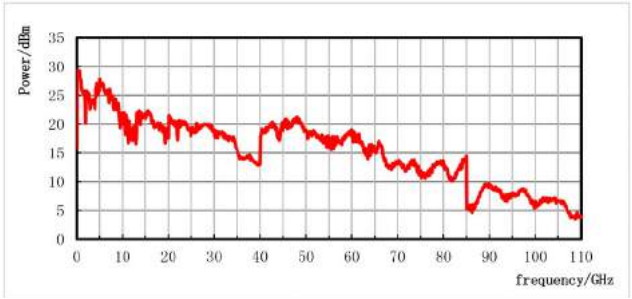
1466-D maximum output power measured value (option H05-20)



1466-G maximum output power measured value (option H05-45)



1466-L maximum output power measured value (option H05-67)



1466-P maximum output power measured value (option H05-110)

Abundant Built-in Features

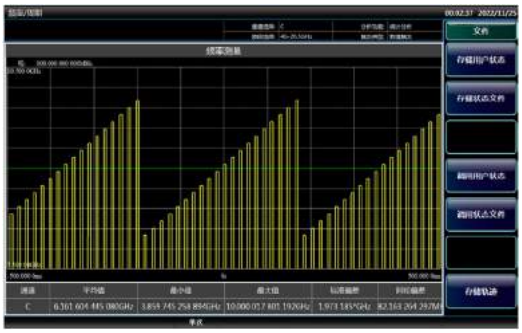
Complete Analog Modulation

Supports amplitude modulation, frequency modulation, phase modulation, and pulse modulation. Equipped with complex pulse modulation functions such as dual pulse, pulse train, repeat frequency stagger, repeat frequency jitter, repeat frequency slip, etc.

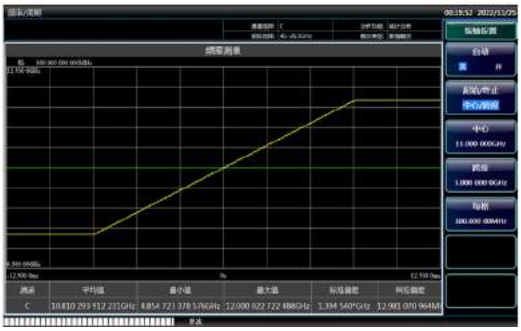
Analog modulation configuration interface

Multi Style Sweep Function

Supports step sweep, list sweep, analog sweep (slope sweep), and power sweep functions.



Step sweep measurement results



Simulated sweep (slope sweep) actual measurement results

Newly Upgraded Human-computer Interaction

Touchable Graphic Guided Interaction

Adopting an 11.6-inch high-resolution touch screen, it clearly displays the main parameters and instrument status information, combined with a signal flow diagram guidance interface, making the display more intuitive and interactive.

Signal Flow Diagram Guidance Interface

Flexible Editing of User Control Interface

Support user-defined menus, customize personalized user control interfaces according to testing habits, achieve multi-functional operations within a window, and avoid the troubles of deep menus and repeated searches.

User Defined Menu

Support Cross Platform Client Manipulation

Cross platform client and browser access control. Supports multiple clients to connect simultaneously, and the instrument's working status is synchronized and refreshed. Support web browser access control for mobile devices.

Browser Access

Synchronous Recording of SCPI Instructions, One Click Script Generation

Not only can recorded SCPI instructions be exported with one click, but also VS (C++, C #), Qt, Matlab, LabView program control example projects can be automatically generated, making program control simpler.

SCPI instruction recording

Specification

Frequency Properties			
Frequency Range	1466-C: 6kHz~13GHz 1466-D: 6kHz~20GHz 1466-E: 6kHz~33GHz 1466-G: 6kHz~45GHz 1466-H: 6kHz~53GHz 1466-L: 6kHz~67GHz 1466-N: 6kHz~90GHz 1466-P: 6kHz~110GHz	Frequency	N (Internal YO harmonic number)
		6kHz≤f≤10MHz	/
		10MHz<f≤50MHz	/
		50MHz<f≤62.5MHz	1/256
		62.5MHz<f≤125MHz	1/128
		125MHz<f≤250MHz	1/64
		250MHz<f≤500MHz	1/32
		500MHz<f≤1GHz	1/16
		1GHz<f≤2GHz	1/8
		2GHz<f≤4GHz	1/4
		4GHz<f≤8GHz	1/2
		8GHz<f≤20GHz	1
		20GHz<f≤40GHz	2
		40GHz<f≤67GHz	4
		100GHz<f≤110GHz	6
Frequency Resolution	0.001Hz		
Frequency Switching Time	<15ms		
Timebase Aging Rate (typical value)	$\pm 5\times10^{-10}$ /day (after 30-day continuous power-on)		

Reference Output	Frequency	10MHz	
	Power	>+4dBm to 50 Ω load	
Reference Input	Frequency	1 ~ 100MHz , steps of 1Hz	
	Power	-5dBm ~ +10dBm, 50Ω Impedance	
Sweep Properties			
Sweep Mode	Step Sweep, List Sweep, Analog Sweep (Slope Sweep, Option S15)		
	Power Sweep (Option S16)		
Analog Sweep (Slope Sweep, Option S15)	Max. Sweep Speed	f>4GHz	400MHz/ms
	Sweep Accuracy	±0.05% sweep width (sweep time 100ms, within the specified maximum sweep width of 100ms)	

Power Properties

	Model	Standard	Programmed Stepper Attenuator Option H01-90/120/130
Min. Power	1466-C/D/E/G	-10dBm (-20dBm configurable)	Option H01-130: 6kHz≤f≤100kHz: -90.0dBm (-150dBm configurable) f>100kHz: -120.0dBm (-150dBm configurable)
	1466-H/L	-10dBm (-20dBm configurable)	Option H01-90: -90.0dBm (-110dBm configurable) Option H01-120: -90.0dBm (-140dBm configurable)
	1466-N/P	-10dBm (-20dBm configurable)	Option H01-50: -50.0dBm (-70dBm configurable)

Max. Power (Continuous wave, 25 ± 10 ° C)

1466-C				
Frequency Range	Standard	Programmed stepper attenuator option H01-130 H01-B130	High-power output option H05-13 H05-B13	Programmed stepper attenuator option+ High-power output option H01-130+ H05-13, H01-B130+H05-B13
6kHz≤f≤50MHz	≥+15.0	≥+15.0	≥+15.0	≥+15.0
50MHz<f≤13GHz	≥+15.0	≥+15.0	≥+20.0	≥+20.0

1466-D				
Frequency Range	Standard	Programmed stepper attenuator option H01-130 H01-B130	High-power output option H05-20 H05-B20	Programmed stepper attenuator option+ High-power output option H01-130+H05-20, H01-B130+H05-B20
6kHz≤f≤50MHz	≥+15.0	≥+15.0	≥+15.0	≥+15.0
50MHz<f≤20GHz	≥+15.0	≥+15.0	≥+20.0	≥+20.0

1466-E				
Frequency Range	Standard	Programmed stepper attenuator option H01-130 H01-B130	High-power output option H05-33 H05-B33	Programmed stepper attenuator option+ High-power output option H01-130+H05-33, H01-B130+H05-B33
6kHz≤f≤50MHz	≥+8.0	≥+8.0	≥+8.0	≥+8.0
50MHz<f≤6GHz	≥+12.0	≥+12.0	≥+20.0	≥+20.0
6GHz<f≤18GHz	≥+12.0	≥+12.0	≥+18.0	≥+18.0
18GHz<f≤30GHz	≥+12.0	≥+12.0	≥+17.0	≥+17.0
30GHz<f≤33GHz	≥+12.0	≥+12.0	≥+18.0	≥+18.0

Max. Power
(Continuous wave, 25 ± 10 ° C)

1466-G

Frequency Range	Standard	Programmed stepper attenuator option H01-130 H01-B130	High-power output option H05-45 H05-B45	Programmed stepper attenuator option+ High-power output option H01-130+H05-45, H01-B130+H05-B45
6kHz≤f≤50MHz	≥+8.0	≥+8.0	≥+8.0	≥+8.0
50MHz<f≤6GHz	≥+12.0	≥+12.0	≥+20.0	≥+20.0
6GHz<f≤18GHz	≥+12.0	≥+12.0	≥+18.0	≥+18.0
18GHz<f≤30GHz	≥+12.0	≥+12.0	≥+17.0	≥+17.0
30GHz<f≤40GHz	≥+12.0	≥+12.0	≥+18.0	≥+18.0
40GHz<f≤45GHz	≥+12.0	≥+12.0	≥+14.0	≥+14.0

1466-H

Frequency Range	Standard	Programmed stepper attenuator option H01-90/120 H01-B90/B120	High-power output option H05-53 H05-B53	Programmed stepper attenuator option+ High-power output option H01-90/120+H05-53 H01-B90/120+H05-B53
6kHz≤f≤50MHz	≥+8.0	≥+8.0	≥+8.0	≥+8.0
50MHz<f≤20GHz	≥+8.0	≥+8.0	≥+17.0	≥+16.0
20GHz<f≤40GHz	≥+8.0	≥+8.0	≥+15.0	≥+13.0
40GHz<f≤53GHz	≥+8.0	≥+8.0	≥+20.0	≥+18.0

1466-L

Frequency Range	Standard	Programmed stepper attenuator option H01-90/120 H01-B90/B120	High-power output option H05-67 H05-B67	Programmed stepper attenuator option+ High-power output option H01-90/120+H05-53 H01-B90/120+H05-B53
6kHz≤f≤50MHz	≥+8.0	≥+8.0	≥+8.0	≥+8.0
50MHz<f≤20GHz	≥+8.0	≥+8.0	≥+17.0	≥+16.0
20GHz<f≤40GHz	≥+8.0	≥+8.0	≥+15.0	≥+13.0
40GHz<f≤53GHz	≥+8.0	≥+8.0	≥+20.0	≥+18.0
53GHz<f≤65GHz	≥+8.0	≥+8.0	≥+18.0	≥+16.0
65GHz<f≤67GHz	≥+8.0	≥+8.0	≥+15.0	≥+12.0

1466-N

Frequency Range	Standard	Programmed stepper attenuator option H01-50 H01-B50	High-power output option H05-110 H05-B110	Programmed stepper attenuator option+ High-power output option H01-50+H05-110, H01-B50+H05-B110
6kHz≤f≤50MHz	≥+5.0	≥+5.0	≥+8.0	≥+8.0
50MHz<f≤20GHz	≥+5.0	≥+5.0	≥+13.0	≥+13.0
20GHz<f≤40GHz	≥+5.0	≥+5.0	≥+12.0	≥+10.0
40GHz<f≤67GHz	≥+3.0	≥+3.0	≥+10.0	≥+8.0
67GHz<f≤85GHz	≥0.0	≥0.0	≥+7.0	≥+5.0
85GHz<f≤90GHz	≥-5.0	≥-5.0	≥+3.0	≥0.0

1466-P

Frequency Range	Standard	Programmed stepper attenuator option H01-50 H01-B50	High-power output option H05-90 H05-B90	Programmed stepper attenuator option+ High-power output option H01-50+H05-90, H01-B50+H05-B90
6kHz≤f≤50MHz	≥+5.0	≥+5.0	≥+8.0	≥+8.0
50MHz<f≤20GHz	≥+5.0	≥+5.0	≥+13.0	≥+13.0

Max. Power (Continuous wave, 25 ± 10 ° C)	20GHz≤f≤40GHz	≥+5.0	≥+5.0	≥+12.0	≥+10.0
	40GHz<f≤67GHz	≥+3.0	≥+3.0	≥+10.0	≥+8.0
	67GHz<f≤85GHz	≥0.0	≥0.0	≥+7.0	≥+5.0
	85GHz<f≤110GHz	≥-5.0	≥-5.0	≥+3.0	≥0.0

Power Accuracy (25 ± 10 ° C)

Standard

Frequency \ Power(dBm)	-10dBm<P≤+10dBm	+10dBm<P≤+25dBm	+25dBm<P
6kHz≤f≤50MHz	±1.0dB	±1.0dB	—
50MHz<f≤3GHz	±0.5dB	±0.5dB	±1.0dB
3GHz<f≤20GHz	±0.9dB	±0.9dB	±1.2dB
20GHz<f≤40GHz	±1.0dB	±1.0dB	—
40GHz<f≤50GHz	±1.3dB	±1.3dB	—
50GHz<f≤67GHz	±1.8dB	±1.8dB	—
67GHz<f≤85GHz	±2.0dB	±2.0dB	—
85GHz<f≤110GHz	±2.2dB	—	—

Programmable Stepper Attenuator Option H01-130/120/90/50/B130

Frequency \ Power(dBm)	-120dBm<P ≤-90dBm	-90dBm<P ≤-50dBm	-50dBm<P ≤+10dBm	+10dBm<P ≤+25dBm	+25dBm<P
6kHz≤f≤50MHz	—	±1.5dB	±1.0dB	±1.0dB	—
50MHz<f≤3GHz	±1.2dB	±0.7dB	±0.5dB	±0.5dB	±1.0dB
3GHz<f≤20GHz	±1.8dB	±0.9dB	±0.9dB	±0.9dB	±1.2dB
20GHz<f≤40GHz	—	±1.2dB	±1.0dB	±1.0dB	—
40GHz<f≤50GHz	—	±1.5dB	±1.3dB	±1.3dB	—
50GHz<f≤67GHz	—	±2.0dB	±1.8dB	±1.8dB	—
67GHz<f≤85GHz	—	—	±2.0dB	±2.0dB	—
85GHz<f≤110GHz	—	—	±2.2dB	—	—

Power Resolution	0.01dB	
Power Temperature Stability	0.02dB/ C (typical value)	
Output Impedance	50 Ω (rated value)	
VSWR (Internal stable amplitude) (typical value)	100kHz≤f≤20GHz	<1.6
	20GHz<f≤40GHz	<1.8
	40GHz<f≤67GHz	<2.0
	67GHz<f≤85GHz	<2.5
	85GHz<f≤110GHz	<3.0
Max. Reverse Power	0.5W (0V DC) (rated value)	

Spectral Purity

Harmonic (whichever is smaller between+10dBm and maximum output power)	Frequency	Standard	
	100kHz≤f≤3GHz	<-30dBc	
	3GHz<f≤67GHz	<-55dBc	
	67GHz<f≤110GHz	<-40dBc	
Subharmonic (whichever is smaller between+10dBm and maximum output power)	6kHz≤f≤20GHz	<-80dBc	
	20GHz<f≤40GHz	<-60dBc	
	40GHz<f≤110GHz	<-50dBc	
Non harmonic (at 0dBm, 3kHz frequency offset further away)	Frequency	Option H04-1	Option H04-2
	6kHz≤f≤250MHz	<-58dBc	<-68dBc
	250MHz<f≤4GHz	<-70dBc	<-80dBc
	4GHz<f≤10GHz	<-70dBc	<-80dBc

Non harmonic (at 0dBm, 3kHz frequency offset further away)	Frequency	Option H04-1	Option H04-2
	6kHz≤f≤250MHz	<-58dBc	<-68dBc
	250MHz<f≤4GHz	<-70dBc	<-80dBc
	4GHz<f≤10GHz	<-70dBc	<-80dBc
	10GHz<f≤20GHz	<-64dBc	<-74dBc
	20GHz<f≤40GHz	<-58dBc	<-68dBc
	40GHz<f≤67GHz	<-52dBc	<-62dBc
	67GHz<f≤110GHz	<-48dBc	<-58dBc

SSB Phase Noise (dBc/Hz, whichever is smaller between+10dBm or the maximum output power)

Low Phase Noise Option H04-1

Frequency Offset / Frequency	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	10MHz
100MHz	—	<-118	<-141	<-148	<-150	—	—
250MHz<f≤500MHz	—	<-111	<-130	<-145	<-143	—	—
0.5 GHz<f≤1GHz	—	<-105	<-124	<-140	<-138	—	—
1 GHz<f≤2GHz	—	<-100	<-118	<-134	<-132	—	—
2 GHz<f≤4GHz	—	<-93	<-113	<-128	<-126	—	—
4GHz<f≤10GHz	—	<-85	<-105	<-120	<-118	—	—
10GHz<f≤20GHz	—	<-79	<-99	<-114	<-112	—	—
20GHz<f≤40GHz	—	<-73	<-93	<-108	<-106	—	—
40GHz<f≤67GHz	—	<-67	<-87	<-103	<-101	—	—
67GHz<f≤110GHz	—	<-61	<-81	<-97	<-95	—	—

Low Phase Noise Option H04-1

Frequency Offset / Frequency	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	10MHz
100MHz	<-102	<-118	<-141	<-148	<-150	<-152	<-152
250MHz<f≤500MHz	<-92	<-112	<-135	<-146	<-148	<-150	<-150
0.5 GHz<f≤1GHz	<-90	<-110	<-134	<-144	<-147	<-150	<-150
1 GHz<f≤2GHz	<-88	<-104	<-127	<-138	<-142	<-148	<-148
2 GHz<f≤4GHz	<-82	<-99	<-122	<-135	<-136	<-146	<-148
4GHz<f≤10GHz	<-77	<-91	<-115	<-128	<-128	<-140	<-154
10GHz<f≤20GHz	<-71	<-85	<-109	<-122	<-122	<-134	<-152
20GHz<f≤40GHz	<-63	<-79	<-99	<-116	<-116	<-128	<-142
40GHz<f≤67GHz	<-57	<-73	<-94	<-110	<-110	<-122	<-136
67GHz<f≤110GHz	<-51	<-67	<-88	<-104	<-104	<-116	<-130

Modulation Properties

Frequency Modulation (50MHz<f ≤ 50GHz, option S11)	Maximum Frequency Deviation: N × 20MHz (N is the fundamental harmonic order)	
	Accuracy (1kHz rate, N × 20kHz ≤ frequency deviation<N × 800kHz):<± (2.5% × Set frequency offset+20Hz)	
	Modulation Rate (3dB bandwidth, N × 500kHz frequency offset): DC-10MHz	
	Distortion (1kHz rate, N × 20kHz ≤ frequency deviation<N × 800kHz):<1%	
Phase Modulation (50MHz<f ≤ 50GHz, option S11)	Max. Phase Deviation:	Normal mode: N × 20.0rad (N is the number of YO harmonics)
		Broadband mode: N × 2rad
		Low noise mode: N × 0.2rad
	Accuracy (1kHz rate, N × 0.2rad ≤ phase deviation < N × 8rad, normal mode):<± (3% × Set phase deviation+0.01 rad)	
	Modulation rate (3dB bandwidth):Broadband mode DC~10MHz (typical value)	
	Distortion (1kHz rate, N × 0.8rad ≤ phase deviation < N × 8rad phase deviation, Total harmonic distortion):<0.8%	

Amplitude Modulation (10MHz<f ≤ 50GHz, option S11)	Maximum depth: > 90%	
	Modulation rate (3 dB bandwidth, 30% modulation depth): DC~100kHz	
	Accuracy (1kHz modulation rate, 30% modulation depth): ± (5% × Set Depth+1%)	
	Distortion (1kHz modulation rate, linear mode, Total harmonic distortion, 30% modulation depth):<1.5%	
Pulse Modulation (option S13, S12)	Pulse Modulation Option S12	
	Switch Ratio	>80dB (50MHz<f≤67GHz)
		>60dB (67GHz<f≤110GHz)
	Rise and Fall Time	<20ns (50MHz<f≤67GHz)
		<30ns (67GHz<f≤110GHz)
	Repetitive Frequency	0Hz~25MHz
	Min. Pulse Width	0.1μs
	Narrow Pulse Modulation Option S13	
	Switch Ratio	>80dB (50MHz<f≤67GHz)
	Rise and Fall Time	<10ns (50MHz<f≤67GHz)
	Repetitive Frequency	0Hz~25MHz (50MHz<f≤67GHz)
	Min. Pulse Width	20ns (50MHz<f≤67GHz)
Low Frequency Output/Function Generator (option S14)	Support Frequency/Phase Modulation, Amplitude Modulation Source Output	
	Waveform: Sine Wave, Square Wave, Triangular Wave, Sawtooth Wave, Noise, Double Sine Wave, Sweep Sine Wave	
	Frequency Range	Sine Wave, Double Sine, Swept Sine:DC~10MHz
		Square Wave, Triangular Wave, Sawtooth Wave:0.1Hz~1MHz
	Frequency Resolution: 0.1Hz	
	Low Frequency Output: amplitude 0-5Vpp (rated value), up to 50 Ω load	
General Properties		
RF Output Port	1466-C/D: 3.5mm (male),50Ω impedance	
	1466-E/G: 2.4mm(male),50Ω impedance	
	1466-H/L: 1.85mm(male),50Ω impedance	
	1466-N/P: 1.0mm(male),50Ω impedance	
Maximum External Dimensions (Width × High × Deep)	475mm × 193mm × 610mm (including handle and protective bottom corner)	
Weight	426mm × 177mm × 500mm (excluding handles and protective corners)	
	< 35 kg (different models and options, different weights)	
Power	100-120VAC, 50-60Hz; or 200~240VAC, 50~60Hz (adaptive)	
Powe Consumption	<600W	
Temperature Range	Working Temperature: 0 ℃ ~+50 ℃ ; Storage Temperature: -40 ℃ ~+70 ℃	

Ordering Information

Model

Model	Name	Description
1466-C	Signal Generator	6kHz~13GHz
1466-D	Signal Generator	6kHz~20GHz
1466-E	Signal Generator	6kHz~33GHz
1466-G	Signal Generator	6kHz~45GHz
1466-H	Signal Generator	6kHz~53GHz
1466-L	Signal Generator	6kHz~67GHz
1466-N	Signal Generator	6kHz~90GHz
1466-P	Signal Generator	6kHz~110GHz

Standard

No.	Name	Description
1	Power Cord	Standard three core power cord
2	Qualification Certificate	/

Options

Option Model	Name	Description
Programmed Stepper Attenuator Option		
1466-H01-130	130dB programmable stepper attenuator	Used to expand the dynamic range of output power, suitable for 1466C/D/E/G.
1466-H01-90	90dB programmable stepper attenuator	Used to expand the dynamic range of output power, suitable for 1466H/L.
1466-H01-120	120dB programmable stepper attenuator	Used to expand the dynamic range of output power, suitable for 1466H/L.
1466-H01-50	50dB programmable stepper attenuator	Used to expand the dynamic range of output power, suitable for 1466N/P.
1466-H01-B130	Channel B 130dB programmable stepper attenuator	Used to expand the dynamic range of channel B output power. Suitable for 1466C/D, mandatory option 1466-H11-B13/B20.
Low Phase Noise Option		
1466-H04-1	Low phase noise	Optimize phase noise, 10GHz@10kHz : -120dBc/Hz. Either 1466-H04-1 or 1466-H04-2 must be selected.
1466-H04-2	Ultra low phase noise	Optimize phase noise, 10GHz@10kHz : -128dBc/Hz. Either 1466-H04-1 or 1466-H04-2 must be selected.
1466-H04-B1	Channel B low phase noise	Optimize channel B phase noise, 10GHz@10kHz : -120dBc/Hz, 1466-H11-B13/B20 is required. Either 1466-H04-B1 or 1466-H04-B2 must be selected.
1466-H04-B2	Channel B ultra low phase noise	Optimize channel B phase noise, 10GHz@10kHz : -128dBc/Hz, must choose 1466-H11-B13/B20, 1466-H04-2. Either 1466-H04-B1 or 1466-H04-B2 must be selected.
High Power Options		
1466-H05-13	13GHz high-power output	Increase maximum output power. Suitable for 1466C.
1466-H05-20	20GHz high-power output	Increase maximum output power. Suitable for 1466D.
1466-H05-33	33GHz high-power output	Increase maximum output power. Suitable for 1466E.
1466-H05-45	45GHz high-power output	Increase maximum output power. Suitable for 1466G.
1466-H05-53	53GHz high-power output	Increase maximum output power. Suitable for 1466H.
1466-H05-67	67GHz high-power output	Increase maximum output power. Suitable for 1466L.
1466-H05-90	90GHz high-power output	Increase maximum output power. Suitable for 1466N.
1466-H05-110	110GHz high-power output	Increase maximum output power. Suitable for 1466P.
1466-H05-B13	13GHz channel B high-power output	Increase the maximum output power of channel B. Suitable for 1466C, option 1466-H11-B13 is required.
1466-H05-B20	20GHz channel B high-power output	Increase the maximum output power of channel B. Suitable for 1466D, option 1466-H11-B20 is required.

Option Model	Name	Description
Dual Channel Option		
1466-H11-B13	13GHz channel B	Add channel B to output 6kHz~13GHz analog signal. Suitable for 1466C/D.
1466-H11-B20	20GHz channel B	Add channel B to output 6kHz~20GHz analog signal. Suitable for 1466D.
Analog Modulation Option		
1466-S11	Analog modulation function	Add analog modulation function, including AM, FM, Φ M.
1466-S12	Pulse modulation function	Add pulse modulation function, with a minimum pulse width of 100ns.
1466-S13	Narrow pulse modulation function	Add pulse modulation function, with a minimum pulse width of 20ns.
1466-S14	Low frequency output/function generation function	Add low-frequency output and Function generator functions.
Sweep Option		
1466-S15	Analog sweep function	Add analog frequency sweep function (slope sweep).
1466-S16	Power sweep function	Add power sweep function.
Matching Options		
1466-H94	Cabinet installation kit	A dedicated kit installed in the cabinet.
1466-H99	Aluminum alloy transport box	High strength and lightweight aluminum alloy transport box with lifting handle and universal roller, convenient for transportation.
1466-H100	User manual (paper version)	Provide a detailed user manual in hard copy.

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