

2015H/2040H/2060H

New Model



Technical data

Model	2015H	2040H	2060H
Sine wave	1μHz~ 20MHz	1μHz ~ 40MHz	1μHz ~ 60MHz
Square wave	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Triangle wave	1μHz ~ 15MHz	1μHz ~ 15MHz	1μHz ~ 15MHz
Pulse wave	100μHz ~ 6MHz	100μHz ~ 6MHz	100μHz ~ 6MHz
Arbitrary	1μHz ~ 6MHz	1μHz ~ 6MHz	1μHz ~ 6MHz
Frequency resolution	1uHz		
Frequency accuracy	±20ppm		
Frequency stability	±1ppm/3hours		
Waveform characteristics			
Waveform type	Sine、Square、 triangular wave, pulse,noise, arbitrary wave (including DC).		
Wave length	8192 points		
Waveform sampling rate	200MSa/s		
Waveform vertical resolution	13-bits		
Sine wave characteristics			
Sine wave	Harmonic Suppression	≥45dBc(<1MHz); ≥40dBc(1MHz~20MHz)	
	Total harmonic distortion	<0.8%(20Hz~20kHz,0dBm)	
Square wave signal characteristics			
Square wave	Rise/Fall time	<20ns	
	Overshoot	<5%	
	Duty cycle range	Frequency < 100 KHz: 1% ~ 99%;	
		100kHz≤ frequency <5MHz: 20% ~ 80%;	
		5MHz≤ frequency: 40% ~ 60%(0.1% resolution)	
Pulse wave characteristics			
Pulse wave	Pulse width	Minimum 20ns; 1 ns resolution.	
	Edge jumping time	Minimum 20ns	
	Overshoot	<5%..	
	Shaking	6ns±0.1% period cycle	
Sawtooth wave characteristics			
Sawtooth wave	Linearity	≥98%(0.01Hz~10kHz)	
	Symmetry	0.0 ~ 100.0%(resolution 0.1%)	
Trigger Input			
Signal Range	2Vpp~20Vpp		
Coupling	AC or DC		
Pulse Width	>100ns		
Reaction Time	<500ns(Burst)		
	<10μs(Sweep)		
Modulation Input			
Impedance	1MΩ		
Signal Range	±2.5V ac+dc		

Output characteristics

Amplitude	2015H		2040H	2060H
Amplitude range	Frequency <10MHz	10MHz ≤ Frequency ≤ 30MHz		30MHz ≤ Frequency
	2mVpp~20Vpp	2mVpp~10Vpp		2mVpp~5Vpp
Amplitude resolution	1mV			
Amplitude accuracy	1% +2mVpp of set value (1kHz sine wave, 0 offset, >10mVpp)			
Amplitude flatness (Relative to 1k sine wave, 1Vpp)	±0.4dB <10MHz ; ±1.0dB ≥10MHz			
Output impedance	50Ω±10% (typical)			
Protection	All signal outputs can work within 60 when the load is short-circuited.			
Offset				
Output range	Output amplitude > 0.1V	2mV < Output amplitude ≤ 0.1V		
	±10Vpk, ac + dc	±0.250Vpk, ac + dc		
Offset resolution	1mV			
Phase characteristics				
Phase adjustment range	0~359.9°			
Phase resolution	0.1°			
External measurement function				
Frequency meter function	Frequency measurement range 1Hz~100MHz			
	Gate time		0.01S~10s continuous adjustment	
Counter function	Counting range 0~4294967295			
	Counting method		Manually	
Input signal voltage range	2Vpp~20Vpp			
Coupling	DC or AC			
Pulse width measurement	1ns resolution, maximum measurable 20s			
Period measurement	1ns us resolution, maximum measurable 20s			

AM Modulation		FM Modulation	
Output channel	CH1 or CH2	Output Channel	CH1 or CH2
Signal Carrier	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External VCO(external is optional)	Source	Internal/External(external is optional)
Modulation Wave	Sine, square, triangle and ramp	Modulation Wave	Sine, square, triangle and ramp
Modulation Frequency	2mHz~20kHz	Modulation Frequency	2mHz~20kHz
Modulation Depth	0%~120%	Frequency Offset	0~Maximum carrier frequency
PM Modulation		ASK Modulation	
Output Channel	CH1 or CH2	Output Channel	CH1 or CH2
Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External(external is optional)	Source	Internal/External
Modulation Wave	Sine, square, triangle and ramp	Modulation Wave	Square wave of 50% duty ratio
Modulation Frequency	2mHz~20kHz	Keying Frequency	2mHz~1MHz
Phase Offset	0°~360°	Modulation Amplitude	0~Carrier Amplitude
FSK Modulation		PSK Modulation	
Output Channel	CH1 or CH2	Output Channel	CH1 or CH2
Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)	Carrier Wave	Sine, square, sawtooth, pulse and arbitrary waveforms (excluding DC)
Source	Internal/External	Source	Internal/External
Modulation Wave	Square wave of 50% duty ratio	Modulation Wave	Square wave of 50% duty ratio
Keying Frequency	2mHz~1MHz	Keying Frequency	2mHz~1MHz
Hop Frequency	Carrier frequency range	Modulation Phase	0°~360°

General Technical Specifications

Power Supply	
Supply Voltage	AC 110~240V, 50~60Hz
Power Consumption	<15W
Display	
Types	2.4-inch TFT LCD screen
Resolution	320×240
Color	16M color
Environment	
Temperature Range	Operation: 10°C~+40°C Non-operation: -10°C~+60°C
Cooling Methods	Natural cooling
Humidity Range	Below +35°C: ≤90% relative humidity, +B14035°C ~ +35°C: ≤90% relative humidity

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