

Technical Specifications

Model	UTG2062B	UTG2082B	UTG2122B
Channel	Dual channel		
Max Frequency	60MHz	80MHz	120MHz
Sampling Rate	1.28GSa/s (320MSa/s ,4 times interpolation)		
Waveform	Sine, Square, Ramp, Burst, Noise, DC, Arbitrary, Harmonic, Expression		
Working Modes	Output gating, Continuous, Modulation, Frequency sweep, Burst		
Modulation Types	AM, FM, PM, ASK, FSK, PSK, BPSK, QPSK, OSK, SUM, DSB-AM, QAM, PWM		

Frequency Characteristic**Sine Wave**

Frequency Range	1 μ Hz~60MHz	1uHz~80MHz	1uHz~120MHz
Resolution	1 μ Hz		
Accuracy	within 90 days \pm 50ppm,within 1 year \pm 100ppm (18 $^{\circ}$ C~28 $^{\circ}$ C)		
Harmonic Distortion	Test Condition: output frequency 0dBm		
(Typical)	DC~1MHz	-60dBc	
	1MHz ~10MHz	-55dBc	
	10MHz ~40MHz	-50dBc	
	40MHz ~80MHz	-45dBc	
	80MHz ~120MHz	-40dBc	
THD (Typical)	<0.2%(DC~20kHz,1Vpp)		
Spurious Signal	Typical (0dBm)		
(Non-harmonic)	DC~10MHz, <-70dBc		
	> 10MHz: <-70dBc+6dB/ octave		
Phase Noise(Typical)	10 MHz: \leq -125 dBc/Hz(typical,0dBm,10kHz deviation)		

Square Wave

Frequency Range	1 μ Hz~60MHz	1 μ Hz~70MHz	1 μ Hz~80MHz
Resolution	1 μ Hz		
Rise/Fall time	<4ns(Typical,1kHz,1Vpp)		
Overshoot	<2% (Typical)		
Duty Ratio	0.001%~99.999%		
Symmetry	1% of period + 4ns		
(Duty Ratio=50%)	Typical(1MHz,1Vpp,50 Ω)		
	\leq 5MHz: 2ppm + 200ps		
	>5MHz: 200ps		

Ramp Wave

Frequency	1 μ Hz~3MHz	1 μ Hz~4MHz	1 μ Hz~5MHz
Resolution	1 μ Hz		
Nonlinearity	< 1% of peak output(Typical,1kHz,1Vpp ,symmetry 100%)		
Symmetry	0.0% ~ 100.0%		

Impulse Wave

Frequency	1 μ Hz~20MHz	1 μ Hz~25MHz	1 μ Hz~30MHz
Resolution	1 μ Hz		
Pulse Width	\geq 16ns		
Variable Edge	9ns~10s	8ns~10s	7ns~10s
Overshoot	<2% (Typical 1Vpp)		
Jitter	150ps		