Product Specifications

Model	DGE2035	DGE2070
Channel	2	
Frequency Output	35MHz	70MHz
Sample Rate	125MSa/s	300MSa/s
Vertical Resolution	14 bits	
Waveform		
Standard Waveform	sine, square, pulse, ramp, and noise	
Arbitrary Waveform	exponential rise, exponential fall, sin(x)/x, step wave, and others, total 150 built-in waveforms, and user-defined arbitrary waveform	
Frequency (resolution 1μHz)		
Sine	1μHz - 35MHz	1μHz - 70MHz
Square	1μHz - 15MHz	1μHz - 20MHz
Pulse	1μHz - 15MHz	1μHz - 20MHz
Ramp	1μHz - 1MHz	1μHz - 2MHz
Noise	20MHz (-3dB，typical)	
Arbitrary Waveform	1μHz -10MHz	
Sine Wave Spectrum Purity		
Harmonic Distortion Typical (0dB)	DC - 1MHz：<-65dBc 1MHz - 30MHz：<-60dBc 30MHz - 60MHz：<-50dBc	
Total Harmonic Distortion	< 0.2%, 10 Hz to 20 kHz, 1 Vpp	
Spurious (non-harmonic), Typical (0dB)	≤10MHz：<-70dBc >10MHz：<-70dBc + 6dB/ octave	
Phase Noise	Typical (0 dBm, 10 kHz deviation) 10MHz：-110dBc/Hz	
Square		
Rise / Fall Time	<15ns	
Overshoot	< 2%	
Duty Cycle	50.0% (fixed)	
Jitter (rms)	200ps + 30ppm	
Pulse		
Cycle	66.667ns - 1000ks	50ns - 1000ks
Pulse Width	≥24ns	
Leading / Trailing Edge Time	≥15ns	
Jitter (rms)	200ps + 30ppm	
Ramp		
Linearity	≤1% of peak output (typical, 1kHz, 1 Vpp, 50% symmetry)	
Symmetry	0% to 100%	