Si Time [®]	Title:	Performance Report SiT8918B, 19.6608MHz		
	Туре:	Performance report	Rev:	1.0
	Orig:		Date:	Nov 21, 2014

This report contains sample performance data for SiT8918B-19.6608MHz.

Conditions:

- Frequency 19.6608 MHz
- Vdd 1.8V, 2.5V, 2.8V, 3.0V, 3.3V
- Temperature 25℃
- Termination:
 - No load for IDD
 - $\circ~~50\Omega$ to GND for phase noise
 - $\circ \quad 15 pF \text{ for other tests} \quad$

Equipment:

- Agilent DSA90604 oscilloscope (6GHz, 20Gsps)
 - o Period jitter, waveform, rise/fall time, duty cycle, amplitude
- Agilent E5052B Signal Source Analyzer
 - Phase noise, integrated phase jitter
- Power supply current
 - Agilent 34401A DMM

Data:

- Random Phase jitter, Period Jitter, Duty cycle, Rise/Fall time, Amplitude, Idd
- Output waveforms
- Frequency stability versus temperature

Parameter	Units	Voltage				
	Units	1.8 V	2.5 V	2.8 V	3.0 V	3.3 V
Random Phase jitter (900kHz - 5MHz)	ps, rms	0.51	0.53	0.51	0.51	0.52
Random Phase jitter (12kHz - 5MHz)	ps, rms	1.24	1.24	1.21	1.20	1.21
Random Phase jitter (900kHz – 19.6608MHz)*	ps, rms	0.82	0.86	0.84	0.84	0.85
Random Phase jitter (12kHz – 19.6608MHz)*	ps, rms	1.40	1.41	1.38	1.37	1.38
Period jitter	ps, rms	1.85	1.77	1.70	1.80	1.71
Period jitter (10,000 cycles)	ps, pk-pk	14.5	13.3	12.2	12.7	12.4
Duty cycle	%	50.0	49.9	50.1	50.2	50.4
Rise time (20% - 80%)	ns	1.23	1.00	0.91	0.97	0.91
Fall time (80% - 20%)	ns	1.26	0.98	0.89	0.97	0.91
Amplitude	V	1.78	2.48	2.77	3.02	3.30
Current consumption (no load, output enabled)	mA	3.60	3.72	3.77	3.79	3.85
Current consumption (no load, output disabled)	mA	3.44	3.52	3.57	3.61	3.68

Table 1. Performance data

*Calculated by extending the noise floor of the phase noise from 5 MHz to 19.6608 MHz

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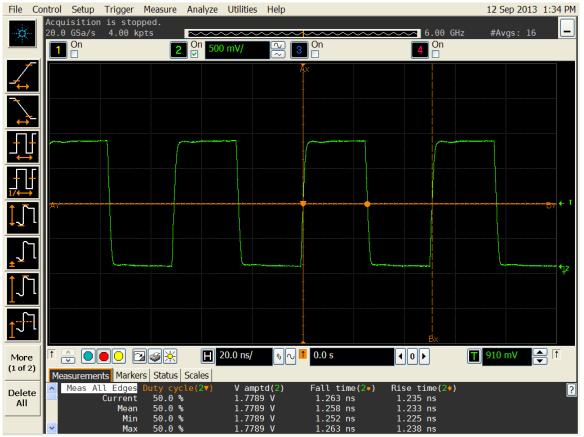


Figure 1. Duty cycle, Rise/Fall time and Amplitude 1.8V

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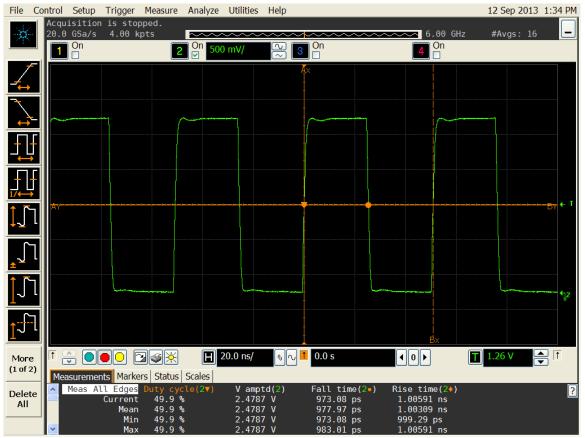


Figure 2. Duty cycle, Rise/Fall time and Amplitude 2.5V

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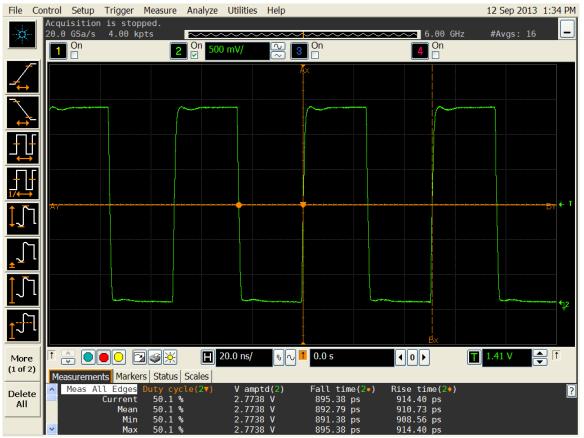


Figure 3. Duty cycle, Rise/Fall time and Amplitude 2.8V

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Figure 4. Duty cycle, Rise/Fall time and Amplitude 3.0V

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Figure 5. Duty cycle, Rise/Fall time and Amplitude 3.3V

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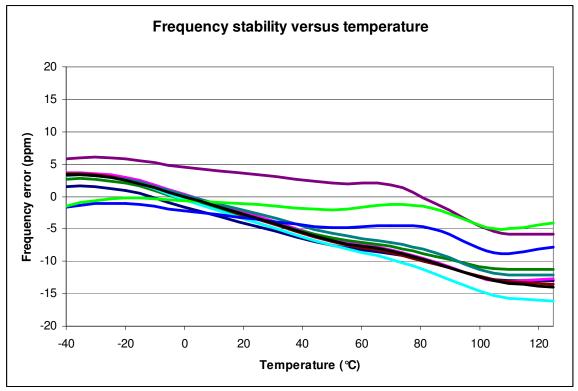


Figure 6. Frequency stability* versus temperature

*Please note that frequency stability in SiTime devices is not depended on output frequency.