	Title:	Performance Report SiT1602B, 19.2MHz			
	Type:	Performance report	Rev:	1.0	
	Orig:		Date:	Mar 31, 2014	

This report contains sample performance data for SiT1602B-19.2MHz.

Conditions:

- Frequency 19.2 MHz
- Vdd 1.8V, 2.5V, 2.8V, 3.0V, 3.3V
- Temperature 25 °C
- Termination:
 - o No load for IDD
 - o 50Ω to GND for phase noise
 - o 15pF for other tests

Equipment:

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


Data:

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

Table 1. Performance data

Parameter	Units	Voltage				
		1.8 V	2.5 V	2.8 V	3.0 V	3.3 V
Random Phase jitter (900kHz - 5MHz)	ps, rms	0.47	0.49	0.49	0.49	0.49
Random Phase jitter (12kHz - 5MHz)	ps, rms	1.25	1.27	1.26	1.25	1.28
Random Phase jitter (900kHz - 19.2MHz)*	ps, rms	0.76	0.80	0.79	0.78	0.79
Random Phase jitter (12kHz - 19.2MHz)*	ps, rms	1.38	1.42	1.40	1.39	1.42
Period jitter	ps, rms	1.86	1.76	1.70	1.70	1.68
Period jitter (10,000 cycles)	ps, pk-pk	13.7	12.5	12.3	12.6	12.0
Duty cycle	%	50.0	49.9	50.1	50.2	50.3
Rise time (20% - 80%)	ns	1.26	1.03	0.95	1.00	0.94
Fall time (80% - 20%)	ns	1.26	0.99	0.91	0.98	0.93
Amplitude	V	1.79	2.48	2.77	3.02	3.30
Current consumption (no load, output enabled)	mA	3.53	3.65	3.70	3.72	3.78
Current consumption (no load, output disabled)	mA	3.39	3.46	3.51	3.55	3.63

*Calculated by extending the noise floor of the phase noise from 5 MHz to 19.2 MHz

	Title:	Performance Report SiT1602B, 19.2MHz		
	Type:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014

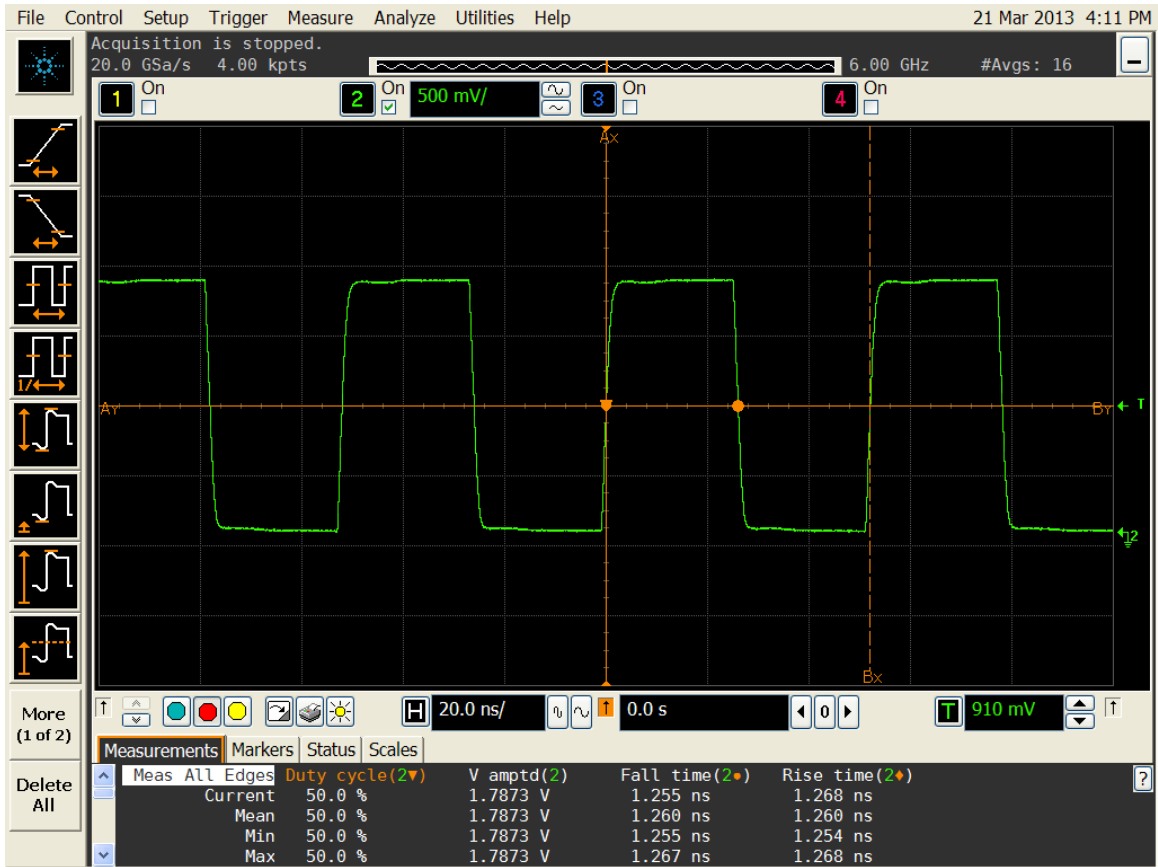



Figure 1. Duty cycle, Rise/Fall time and Amplitude 1.8V

The information contained in this document is confidential and proprietary to SiTime Corporation. Unauthorized reproduction or distribution is prohibited.

	Title:	Performance Report SiT1602B, 19.2MHz		
	Type:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014

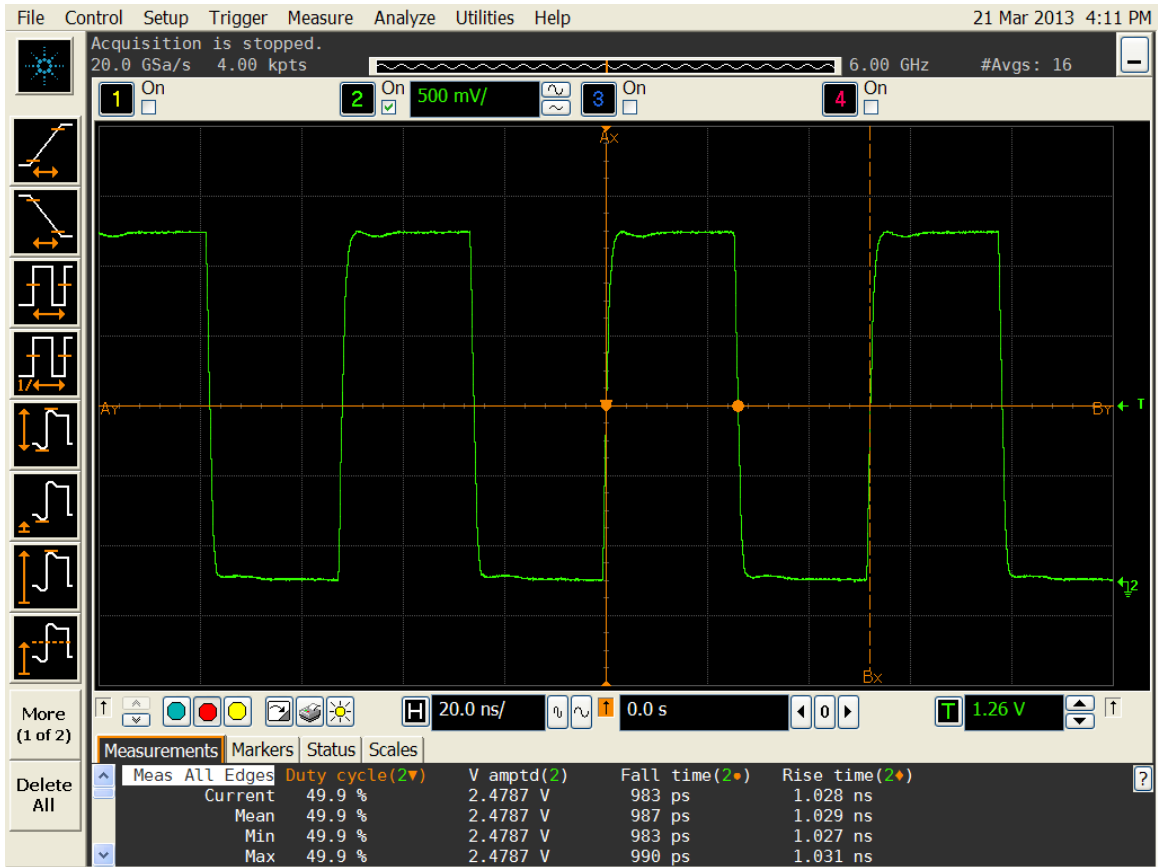



Figure 2. Duty cycle, Rise/Fall time and Amplitude 2.5V

The information contained in this document is confidential and proprietary to SiTime Corporation. Unauthorized reproduction or distribution is prohibited.

	Title:	Performance Report SiT1602B, 19.2MHz		
	Type:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014

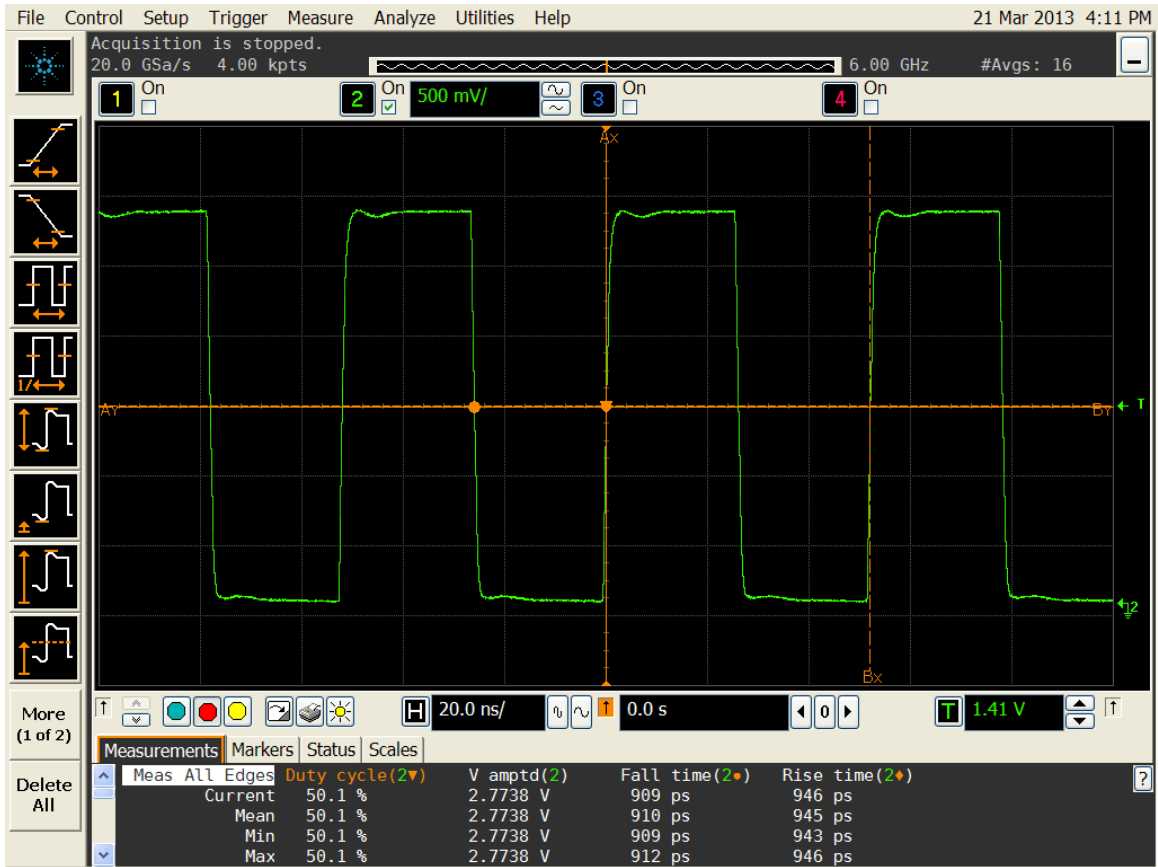



Figure 3. Duty cycle, Rise/Fall time and Amplitude 2.8V

	Title:	Performance Report SiT1602B, 19.2MHz		
	Type:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014

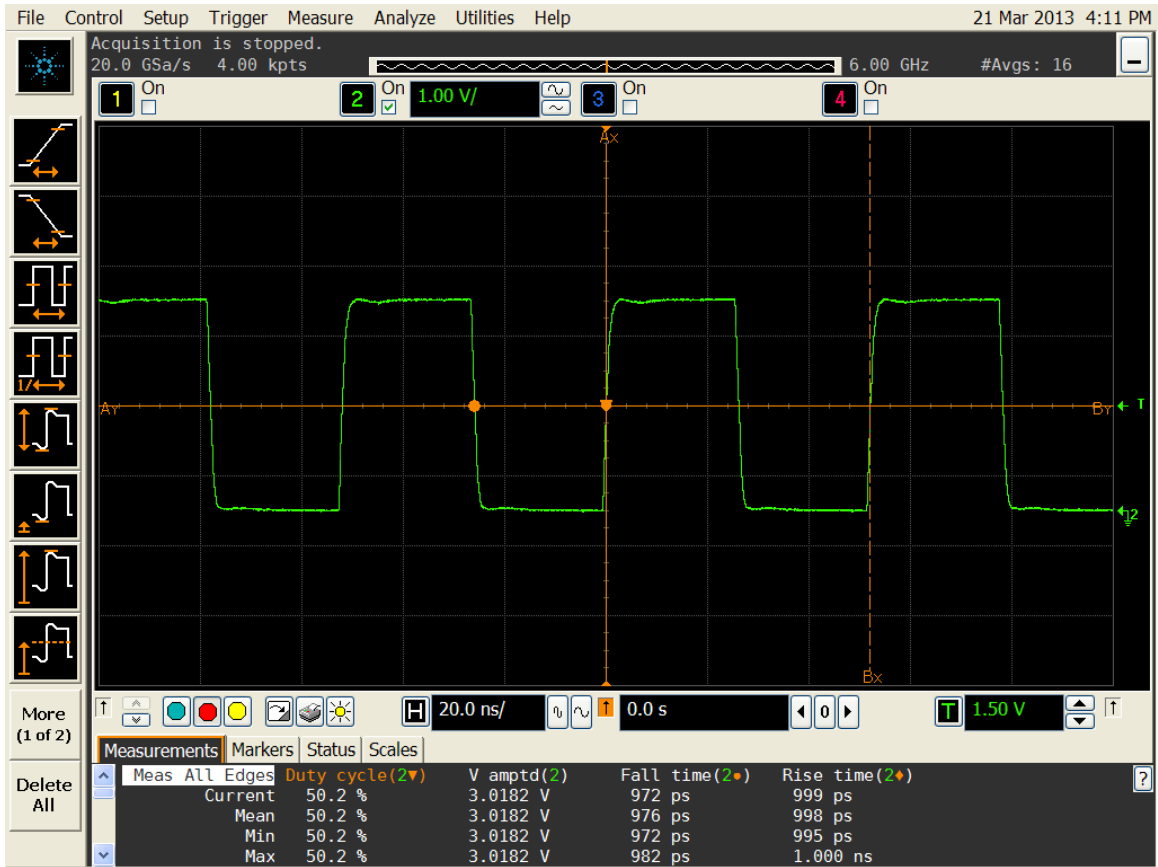



Figure 4. Duty cycle, Rise/Fall time and Amplitude 3.0V

	Title:	Performance Report SiT1602B, 19.2MHz		
	Type:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014

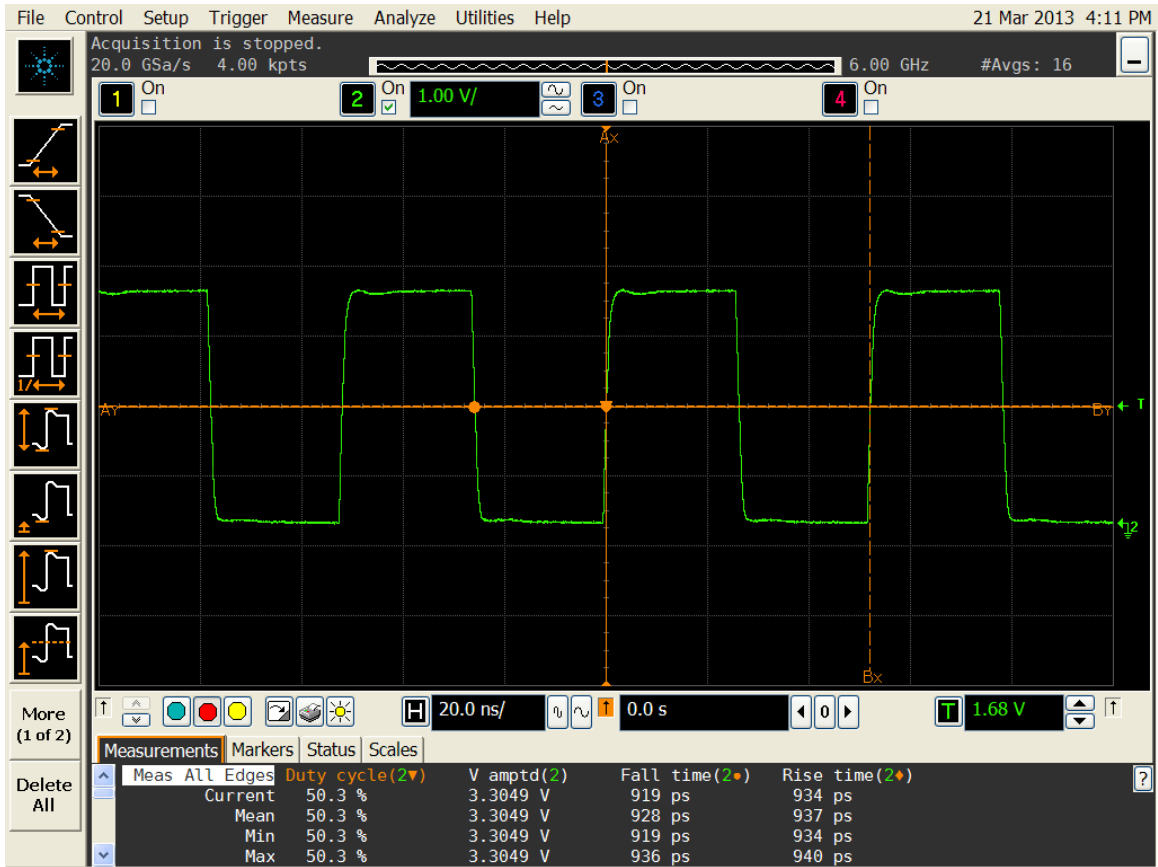


Figure 5. Duty cycle, Rise/Fall time and Amplitude 3.3V

SiTime™	Title:	Performance Report SiT1602B, 19.2MHz	
	Type:	Performance report	Rev: 1.0
	Orig:		Date: Mar 31, 2014



Figure 6. Frequency stability* versus temperature, 1.8 V

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

SiTime™	Title:	Performance Report SiT1602B, 19.2MHz	
	Type:	Performance report	Rev: 1.0
	Orig:		Date: Mar 31, 2014

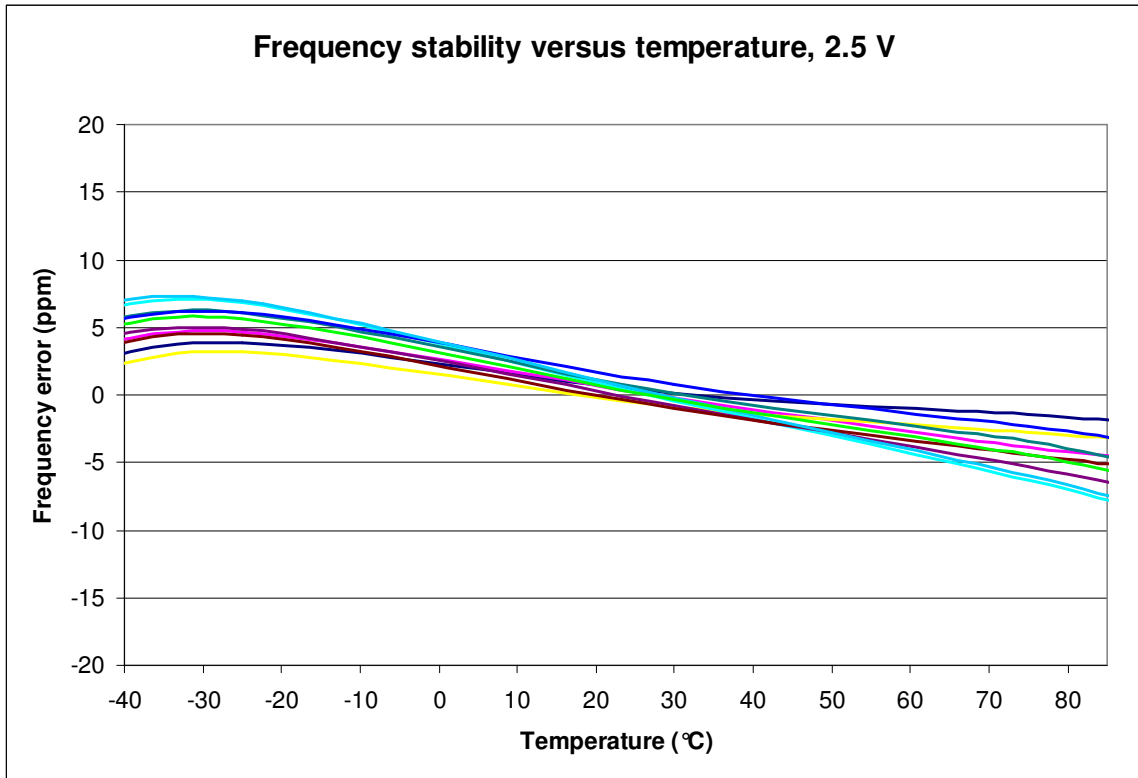


Figure 7. Frequency stability versus temperature, 2.5 V

The information contained in this document is confidential and proprietary to SiTime Corporation. Unauthorized reproduction or distribution is prohibited.

SiTime™	Title:	Performance Report SiT1602B, 19.2MHz		
	Type:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014



Figure 8. Frequency stability versus temperature, 2.8 V

The information contained in this document is confidential and proprietary to SiTime Corporation. Unauthorized reproduction or distribution is prohibited.


	Title:	Performance Report SiT1602B, 19.2MHz	
	Type:	Performance report	Rev: 1.0
	Orig:		Date: Mar 31, 2014



Figure 9. Frequency stability versus temperature, 3.0 V

The information contained in this document is confidential and proprietary to SiTime Corporation. Unauthorized reproduction or distribution is prohibited.

SiTime™	Title:	Performance Report SiT1602B, 19.2MHz	
	Type:	Performance report	Rev: 1.0
	Orig:		Date: Mar 31, 2014



Figure 10. Frequency stability versus temperature, 3.3 V

The information contained in this document is confidential and proprietary to SiTime Corporation. Unauthorized reproduction or distribution is prohibited.