Si Time [®]	Title:	Performance Report SiT1602B, 66MHz		
	Туре:	Performance report	Rev:	1.0
	Orig:		Date:	Mar 31, 2014

This report contains sample performance data for SiT1602B-66MHz.

Conditions:

- Frequency 66 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					
	Onits	1.8 V	2.5 V	2.8 V	3.0 V	3.3 V	
Random Phase jitter (900kHz - 20MHz)	ps, rms	0.57	0.62	0.63	0.63	0.64	
Random Phase jitter (12kHz - 20MHz)	ps, rms	1.28	1.37	1.37	1.37	1.36	
Period jitter	ps, rms	1.82	1.59	1.56	1.57	1.53	
Period jitter (10,000 cycles)	ps, pk-pk	13.6	11.9	11.8	11.4	11.1	
Duty cycle	%	49.9	49.7	50.2	50.6	51.0	
Rise time (20% - 80%)	ns	1.25	1.03	0.95	1.00	0.94	
Fall time (80% - 20%)	ns	1.26	0.99	0.92	0.99	0.94	
Amplitude	V	1.77	2.44	2.73	2.97	3.25	
Current consumption (no load, output enabled)	mA	4.17	4.45	4.59	4.65	4.80	
Current consumption (no load, output disabled)	mA	3.50	3.56	3.62	3.66	3.74	

Table 1. Performance data

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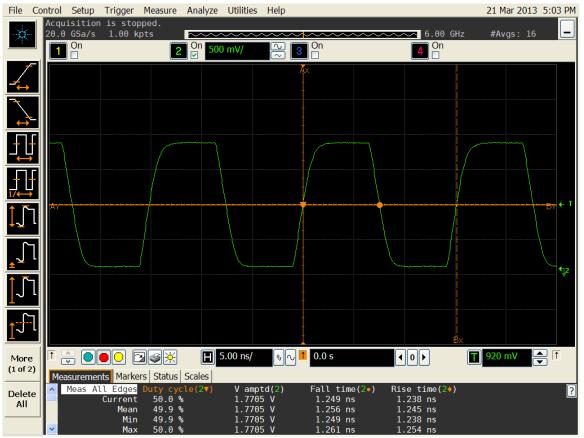


Figure 1. Duty cycle, Rise/Fall time and Amplitude 1.8V

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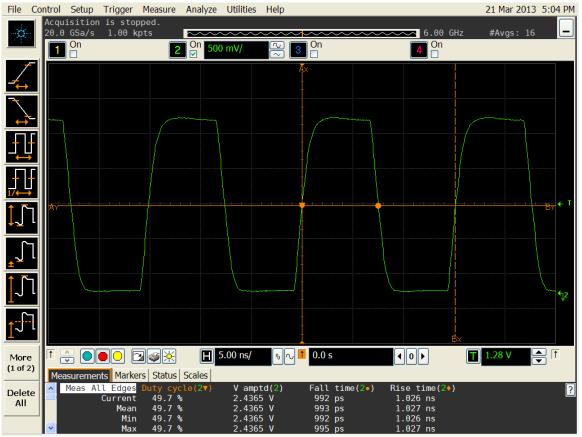


Figure 2. Duty cycle, Rise/Fall time and Amplitude 2.5V

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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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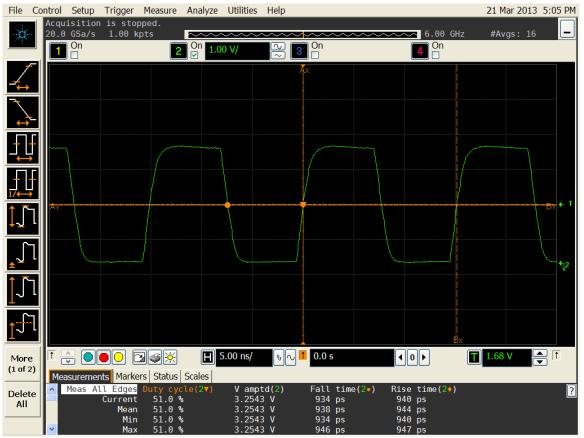


Figure 5. Duty cycle, Rise/Fall time and Amplitude 3.3V

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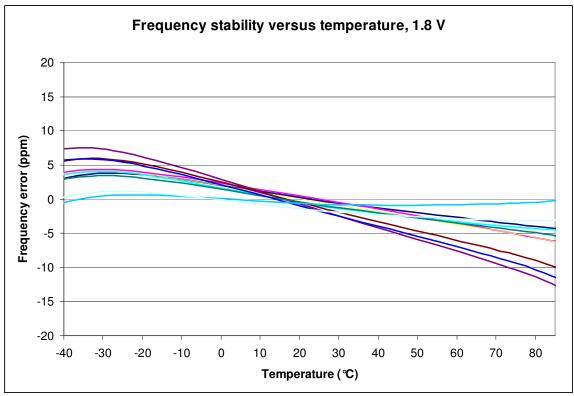


Figure 6. Frequency stability* versus temperature, 1.8 V

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

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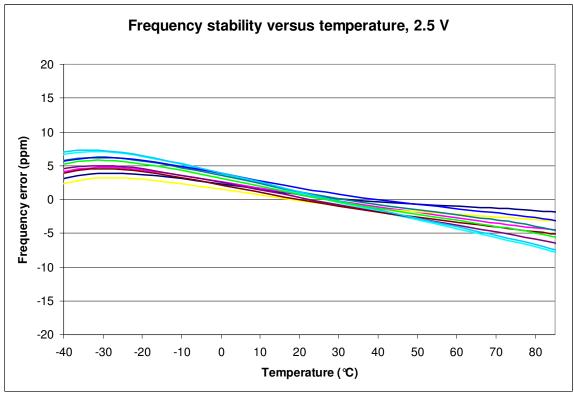


Figure 7. Frequency stability versus temperature, 2.5 V

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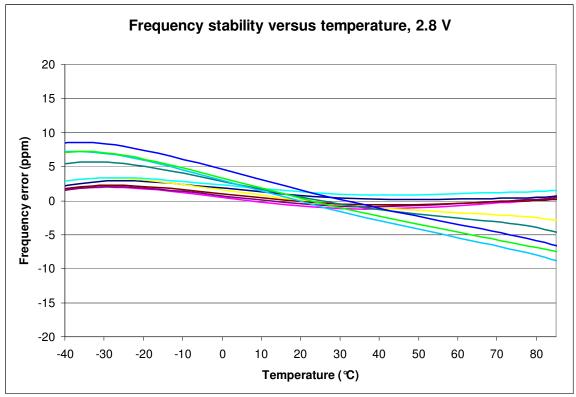


Figure 8. Frequency stability versus temperature, 2.8 V

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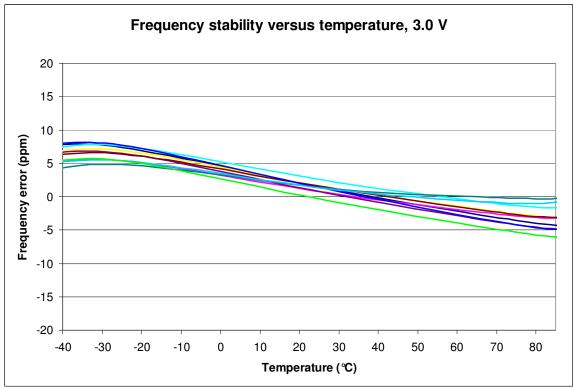


Figure 9. Frequency stability versus temperature, 3.0 V

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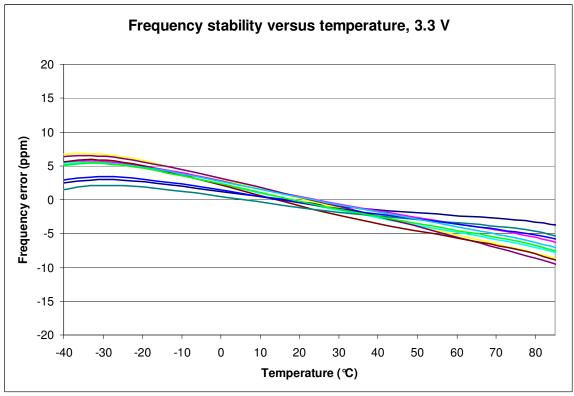


Figure 10. Frequency stability versus temperature, 3.3 V

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