<i>Si</i> Time [™]	Title:	Performance Report SiT9122 at 622.08MHz		
	Туре:	Performance report	Rev:	1.0
	Datasheet Rev:	SiT9122 Advanced	Rev:	0.1
	Orig:		Date:	January 3, 2012

This report contains frequency-related performance data for the differential LVPECL SiT9122 at 622.08MHz.

Conditions:

- Output Frequency 622.08MHz
- Vdd 3.3V
- Temperature 25°C
- Measurement Termination:
 - o Agilent EN5052B SSA, AC-coupled input, 50Ω termination to GND, VTT = 1.3V
 - o Matched (length and impendence) coaxial cables connected to SMA connectors

Equipment:

- Agilent DSA90604 oscilloscope (6GHz, 20Gsps)
- Period jitter
- Agilent E5052B Signal Source Analyzer
 - Phase noise, integrated phase jitter

Data:

Summarized in Table 1 below and captured in detailed plots.

- Phase Noise (Figure 1)
- Integrated Random Phase Jitter (Figure 1)
- Period Jitter (Figure 2)

Table 1. Performance Data Summary

		Units Vdd = 3 Measured Avg ps, rms 0.644 ps, rms 1.02	Vdd = 3.3V	
Parameter	Frequency (MHz)		Datasheet Typ Value	
RMS Phase Jitter (Random) (50kHz - 80MHz)	622.08	ps, rms	0.644	NA
Period Jitter	022.00	ps, rms	1.02	1.5

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Figure 1. Phase Noise and Random Phase Jitter at 622.08MHz Carrier, 50kHz to 80MHz Offset.



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Figure 2. Period Jitter at 622.08MHz.



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