	Title:	Performance Report SiT9122 at 311.04MHz		
	Type:	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 311.04MHz.

Conditions:

- Output Frequency 311.04MHz
- 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 impedance) coaxial cables connected to SMA connectors

Equipment:

- Agilent DSA90604 oscilloscope (6GHz, 20Gps)
 - o Period jitter
- Agilent E5052B Signal Source Analyzer
 - o 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

Parameter	Frequency (MHz)	Units	Vdd = 3.3V	
			Measured Avg	Datasheet Typ Value
RMS Phase Jitter (Random) (50kHz - 80MHz)	311.04	ps, rms	0.556	0.5
Period Jitter		ps, rms	0.994	1.5


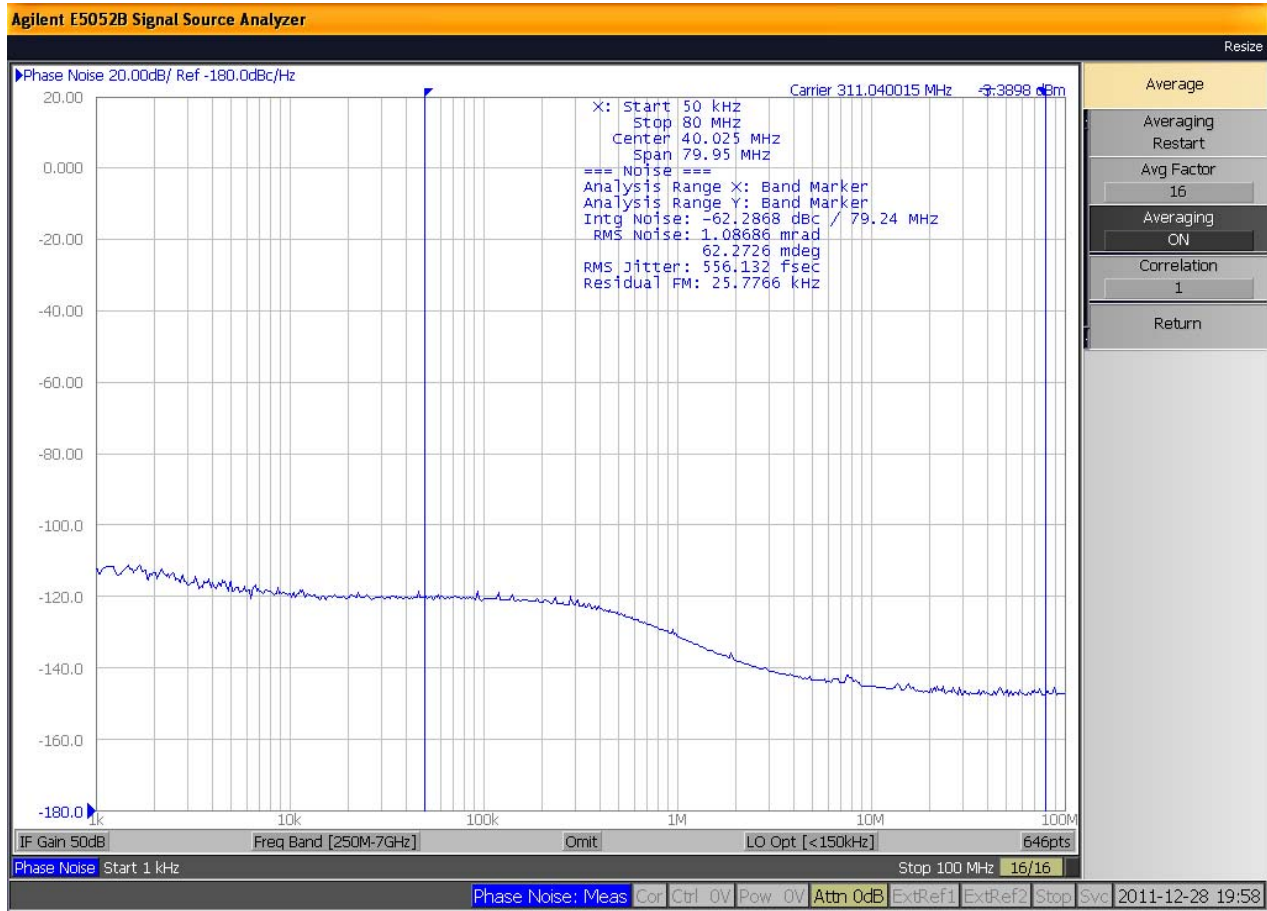
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Figure 1. Phase Noise and Random Phase Jitter at 311.04MHz Carrier, 50kHz to 80MHz Offset.



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Figure 2. Period Jitter at 311.04MHz.

