	Title:	Performance Report SiT9120 at 156.25MHz		
	Type:	Performance report	Rev:	1.0
	Datasheet Rev:	SiT9120 Advanced	Rev:	0.1
	Orig:		Date:	Dec 23, 2011

This report contains frequency-related performance data for the differential LVPECL SiT9120 at 156.25MHz.

Conditions:

- Data taken from two separate SiT9120 EVBs
- Output Frequency 156.25MHz
- 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 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)

Table 1. Performance Data Summary

Parameter	Units	Vdd = 3.3V	
		Measured Avg	Datasheet Typ Value
RMS Phase Jitter (Random) (12kHz - 20MHz)	ps, rms	0.57	0.5


	Title:	Performance Report SiT9120 at 156.25MHz		
	Type:	Performance report	Rev:	1.0
	Datasheet Rev:	SiT9120 Advanced	Rev:	0.1
	Orig:		Date:	Dec 23, 2011

Figure 1. Phase Jitter at 156.25MHz Carrier, 12kHz to 20MHz Offset.

