List of Phase Models' Parameters				
Parameter of the phase Model	Value	Parameter of the 4rd Gen Prototype	Value	Comment
ω_k	60 2π $10^9 Hz$	$\omega_k = 2\pi f_k$	60 $10^9 Hz$	intrinsic SLL frequency
K_k^{VCO}	2π 1 $10^9 Hz/V$	$K_{VCO}^{prebias}$	$1 * 10^9 Hz/V$	sensitivity of the VCO at f_{VCO}^{out}
A_k^{bias}	$2.12V$	$A_k^{prebias}$	$2.12V$	pre-bias voltage of the VCO at f_{VCO}^{out}
τ^{cc}	$0...10ns$	τ^{cc}	$0...10ns$	crosscoupling time-delay
A_k^{PD}	$1.6V$	$\frac{A_k^{PD}=A_k^{PD,max}-A_k^{PD,min}=}{\overline{V_{A-\bar{A}},max}-\overline{V_{A-\bar{A}},min}}$	$0.8-(-0.8)=1.6V$	voltage of the PD
$A_k^{PD,off}$	$0V$	$A_k^{PD,off}$	$0V$	offset voltage of the PD
$G_k^{a,1}$	0.1...16	$G_k^{a,1}$	...	gain (damping) of the first adder
$G_k^{a,2}$	1	$G_k^{a,2}$	0 dB	gain of the second adder
G_k^{LF}	1	G_k^{LF}	0 dB	loop filter gain
ω^c	100 (10^6)...800 $(10^6) HZ$	...	range of cut off frequency	
v_k	4 and 8	v_k	4 and 8	division of the VCO's frequency
K_k	2π 800 10^6 $G_k^{a,1} Hz/V$	$K_k = K_k^{VCO} G_k^{a,1} G_k^{a,2} A_k^{PD}/2$	...	coupling strength