

## Baseline design D1101124-v5 (9&amp;45 MHz Variant)

<b>F LO Nominal</b>	9MHz	<b>F HI Nominal</b>	45MHz
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U7 RF LOW STAGE					
C35	C38	L9	L12	C43	C50
1.50E-10	4.00E-11	1.80E-06	1.00E-06	3.00E-11	5.60E-11

Input Notch Tuning Range	
Fmin(MHz)	8.6
Fmax (MHz)	9.7
Fmid (MHz)	9.1

Feedback Notch Tuning Range	
Fmin(MHz)	17.2
Fmax (MHz)	21.3
Fmid (MHz)	19.2

U4 RF HI STAGE					
C12	C15	L3	L6	C27	C29
2.20E-11	2.00E-11	3.90E-07	1.00E-06	3.00E-11	5.60E-11

Input Notch Tuning Range	
Fmin(MHz)	39.3
Fmax (MHz)	54.3
Fmid (MHz)	46.8

Feedback Notch Tuning Range	
Fmin(MHz)	17.2
Fmax (MHz)	21.3
Fmid (MHz)	19.2

Notch Farm	18MHz		36MHz		54MHz		90MHz	
	Notch 1	Value	Notch 2	Value	Notch 3	Value	Notch 4	Value
	L1	3.90E-07	L2	1.80E-07	L4	1.00E-07	L5	1.00E-07
	C4	4.00E-11	C10	4.00E-11	C17	3.00E-11	C26	2.00E-11
	C2	1.80E-10	C7	8.20E-11	C16	6.80E-11	C25	2.00E-11
	Fmin(MHz)	17.2	Fmin(MHz)	34.0	Fmin(MHz)	50.8	Fmin(MHz)	79.6
	Fmax (MHz)	19.0	Fmax (MHz)	41.4	Fmax (MHz)	61.0	Fmax (MHz)	112.5
	Fmid (MHz)	18.1	Fmid (MHz)	37.7	Fmid (MHz)	55.9	Fmid (MHz)	96.1

DC Path	
Component	Value
L7	2.20E-07
C30	1.00E-10

## Baseline design D1101124-v5 (Input Modecleaner Variant)

F LO Nominal	24.078MHz	F HI Nominal	n/a
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U7 RF LOW STAGE					
C35	C38	L9	L12	C43	C50
4.70E-11	4.00E-11	6.20E-07	omit	omit	omit

Input Notch Tuning Range	
Fmin(MHz)	21.7
Fmax (MHz)	29.5
Fmid (MHz)	25.6

Feedback Notch Tuning Range	
Fmin(MHz)	#VALUE!
Fmax (MHz)	#VALUE!
Fmid (MHz)	#VALUE!

U4 RF HI STAGE					
C12	C15	L3	L6	C27	C29
omit	omit	omit	omit	omit	omit

Input Notch Tuning Range	
Fmin(MHz)	#VALUE!
Fmax (MHz)	#VALUE!
Fmid (MHz)	#VALUE!

Feedback Notch Tuning Range	
Fmin(MHz)	#VALUE!
Fmax (MHz)	#VALUE!
Fmid (MHz)	#VALUE!

Notch Farm	48.156MHz	48.156MHz	48.156MHz	Not Used			
Notch 1	Value	Notch 2	Value	Notch 3	Value	Notch 4	Value
L1	3.30E-07	L2	3.30E-07	L4	3.30E-07	L5	omit
C4	2.00E-11	C10	2.00E-11	C17	2.00E-11	C26	omit
C2	2.00E-11	C7	2.00E-11	C16	2.00E-11	C25	omit
Fmin(MHz)	43.8	Fmin(MHz)	43.8	Fmin(MHz)	43.8	Fmin(MHz)	#VALUE!
Fmax (MHz)	62.0	Fmax (MHz)	62.0	Fmax (MHz)	62.0	Fmax (MHz)	#VALUE!
Fmid (MHz)	52.9	Fmid (MHz)	52.9	Fmid (MHz)	52.9	Fmid (MHz)	#VALUE!

DC Path	
Component	Value
L7	2.20E-07
C30	1.00E-10

### Baseline design D1101124-v5 (Prestabilized Laser Variant)

<b>F LO Nominal</b>	21.500MHz	<b>F HI Nominal</b>	n/a
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U7 RF LOW STAGE					
C35	C38(var)	L9	L12	C43	C50
6.80E-11	4.00E-11	6.20E-07	omit	omit	omit

Input Notch Tuning Range	
Fmin(MHz)	19.4
Fmax (MHz)	24.5
Fmid (MHz)	22.0

Feedback Notch Tuning Range	
Fmin(MHz)	#VALUE!
Fmax (MHz)	#VALUE!
Fmid (MHz)	#VALUE!

U4 RF HI STAGE					
C12	C15(var)	L3	L6	C27	C29
omit	omit	omit	omit	omit	omit

Input Notch Tuning Range	
Fmin(MHz)	#VALUE!
Fmax (MHz)	#VALUE!
Fmid (MHz)	#VALUE!

Feedback Notch Tuning Range	
Fmin(MHz)	#VALUE!
Fmax (MHz)	#VALUE!
Fmid (MHz)	#VALUE!

Notch Farm	43MHz	43MHz	43MHz	Not Used			
Notch 1	Value	Notch 2	Value	Notch 3	Value	Notch 4	Value
L1	3.30E-07	L2	3.30E-07	L4	3.30E-07	L5	omit
C4(var)	2.00E-11	C10(var)	2.00E-11	C17(var)	2.00E-11	C26(var)	omit
C2	3.30E-11	C7	3.30E-11	C16	3.30E-11	C25	omit
Fmin(MHz)	38.1	Fmin(MHz)	38.1	Fmin(MHz)	38.1	Fmin(MHz)	#VALUE!
Fmax (MHz)	48.2	Fmax (MHz)	48.2	Fmax (MHz)	48.2	Fmax (MHz)	#VALUE!
Fmid (MHz)	43.1	Fmid (MHz)	43.1	Fmid (MHz)	43.1	Fmid (MHz)	#VALUE!

DC Path	
Component	Value
L7	2.20E-07
C30	1.00E-09

**A 402 ohm resistor is added in parallel to L7 to de-Q**