

Sheet1

with offset:

No	Nfet W/L	Pfet W/L	V Vth	A Id	W P@1Hz
1	14/07	14/7	345m	226u	1.18f
2	7/7	8/7	354m	120u	622f
3	4/7	6/7	373m	76.8u	404a
4	1/7	2/7	392m	21.4u	114a
5	20/7	20/7	345m	323u	1.66f

Bandgap (circuit modified)
VDD/V

	Vconst @ 25°C V	dVconst/dT V/K	Vref @ 25°C V	dVref/dT V/K	tstart s
0.7	0.249	13.9u	0.569	1.1m	57.4p
0.75	0.26	-7.4u	0.629	0.97m	62.3p
0.8	0.271	-17.7u	0.689	0.873m	77.9p
0.9	0.292	-42u	0.806	0.639m	972p
1	0.311	-56u	0.917	0.445m	976p
1.1	0.328	-61u	1.03	0.304m	978p

Sheet1

ps		Hz	A/V	V
tpd	Av	fmax	gm	NM
	0.6	6.43 157G	1.16m	168m
	0.74	6.43 158G	596u	180m
	1.06	6.47 170G	359u	151m
	1.47	6.55 160G	93.9u	124m
	0.6	6.43 157G	1.6m	168m

dVconst/dVDD
V/V

0.22
0.22
0.21
0.19
0.17