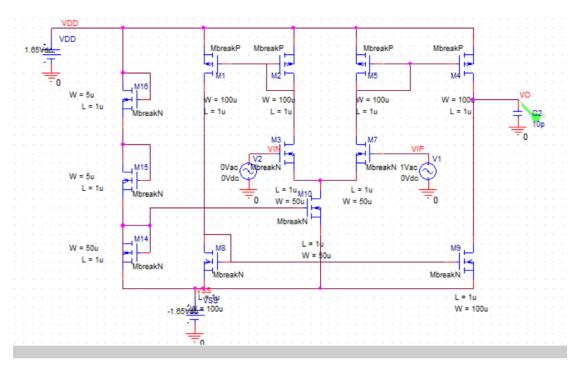
B06602035 李晴妍

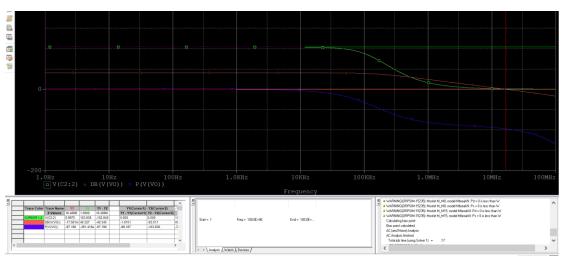
DP2:

Schematics:



Bode plot &phase

Gain / PM:

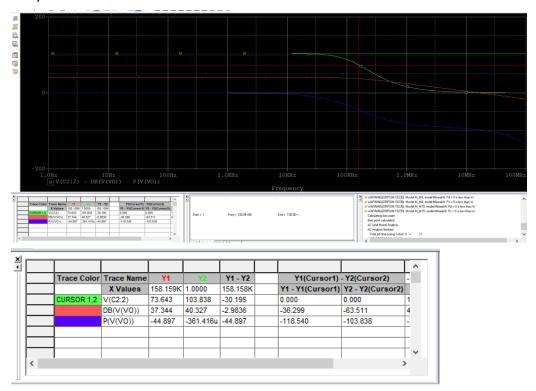


Trace Color	Trace Name	Y1	Y2 Y1 - Y2 Y1(Cursor1) - Y2(C	- Y2(Cursor2)	-1		
	X Values	16.489M	1.0000	16.489M	Y1 - Y1(Cursor1)	Y2 - Y2(Cursor2)	
CURSOR 1,2	V(C2:2)	0.9975	103.838	-102.840	0.000	0.000	1
	DB(V(VO))	-17.561m	40.327	-40.345	-1.0151	-63.511	4
	P(V(VO))	-97.190	-361.416u	-97.190	-98.187	-103.838	-3
							L
							L

Gain: 103.838V/1V = 103.838V

PM:-97.190 degree

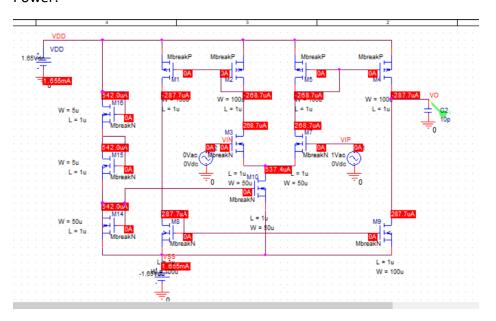
BW / GBW:



BW:158.159KHz

GBW:158.159K*73.643 = 11647303.24 = 11.65MHz

Power:



Power: 3.3V*1.655mA = 5.4615mA

netlist file:

* source DESIGN2

M_M2 N20468 N20468 VDD VDD MbreakP

+ L=1u

+ W=100u

M M10 N20684 N24200 VSS VSS MbreakN

+ L=1u

+ W=50u

M M7 N20480 VIP N20684 N20684 MbreakN

+ L=1u

+ W=50u

V VSS VSS 0 -1.65Vdc

V_V1 VIP 0 DC 0Vdc AC 1Vac C_C2 0 VO 10p TC=0,0

M_M8 N20498 N20498 VSS VSS MbreakN

+ L=1u

+ W=100u

M_M9 VO N20498 VSS VSS MbreakN

+ L=1u

+ W=100u

M M3 N20468 VIN N20684 N20684 MbreakN

+ L=1u

+ W=50u

M M5 N20480 N20480 VDD VDD MbreakP

+ L=1u

+ W=100u

M M4 VO N20480 VDD VDD MbreakP

+ L=1u

+ W=100u

V VDD VDD 0 1.65Vdc

M M14 N24200 N24200 VSS VSS MbreakN

+ L=1u

+ W=50u

V_V2 VIN 0 DC 0Vdc AC 0Vac

M_M1 N20498 N20468 VDD VDD MbreakP

+ L=1u

+ W=100u

M M15 N32108 N32108 N24200 N24200 MbreakN

```
+ L=1u
```

+ W=5u

M_M16 VDD VDD N32108 N32108 MbreakN

+ L=1u

+ W=5u

Simulation using the following netlist:

* source DESIGN2

M_M2 N20468 N20468 VDD VDD MbreakP L=1u W=100u M_M10 N20684 N24200 VSS VSS MbreakN L=1u W=50u M_M7 N20480 VIP N20684 N20684 MbreakN L=1u W=50u

M_M8 N20498 N20498 VSS VSS MbreakN L=1u W=100u M_M9 VO N20498 VSS VSS MbreakN L=1u W=100u M_M3 N20468 VIN N20684 N20684 MbreakN L=1u W=50u M_M5 N20480 N20480 VDD VDD MbreakP L=1u W=100u M_M4 VO N20480 VDD VDD MbreakP L=1u W=100u M_M14 N24200 N24200 VSS VSS MbreakN L=1u W=50u M_M1 N20498 N20468 VDD VDD MbreakP L=1u W=100u M_M15 N24216 N24216 N24216 M24200 M54200 MbreakN L=1u W=5u M_M16 VDD VDD N24216 N24216 MbreakN L=1u W=5u

Power = 1.7917 mW Gain = 104.5194 V/V PM = 81.4698 degree BW = 196.1 kHz GBW = 20.49625434 MHz SR+ = 18.54 V/us SR- = -20.89 V/us ICMR+ = 1.3000 V ICMR- = -0.8500 V Total Area = 2430 um^2

Score = 76.4294635497942