

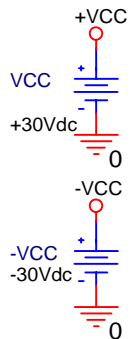
PARAMETERS:

$R_g = 680$

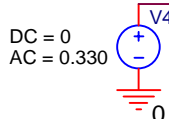
LENGTH = 20
 RLOAD = 50k
 $R_e = 56$
 $R_{be} = 1000$
 $R_{fb} = 150$
 $R_{bi} = 2.0k$

$CL = 0.001p$

$R_g = 0 \rightarrow$
 0.0000001



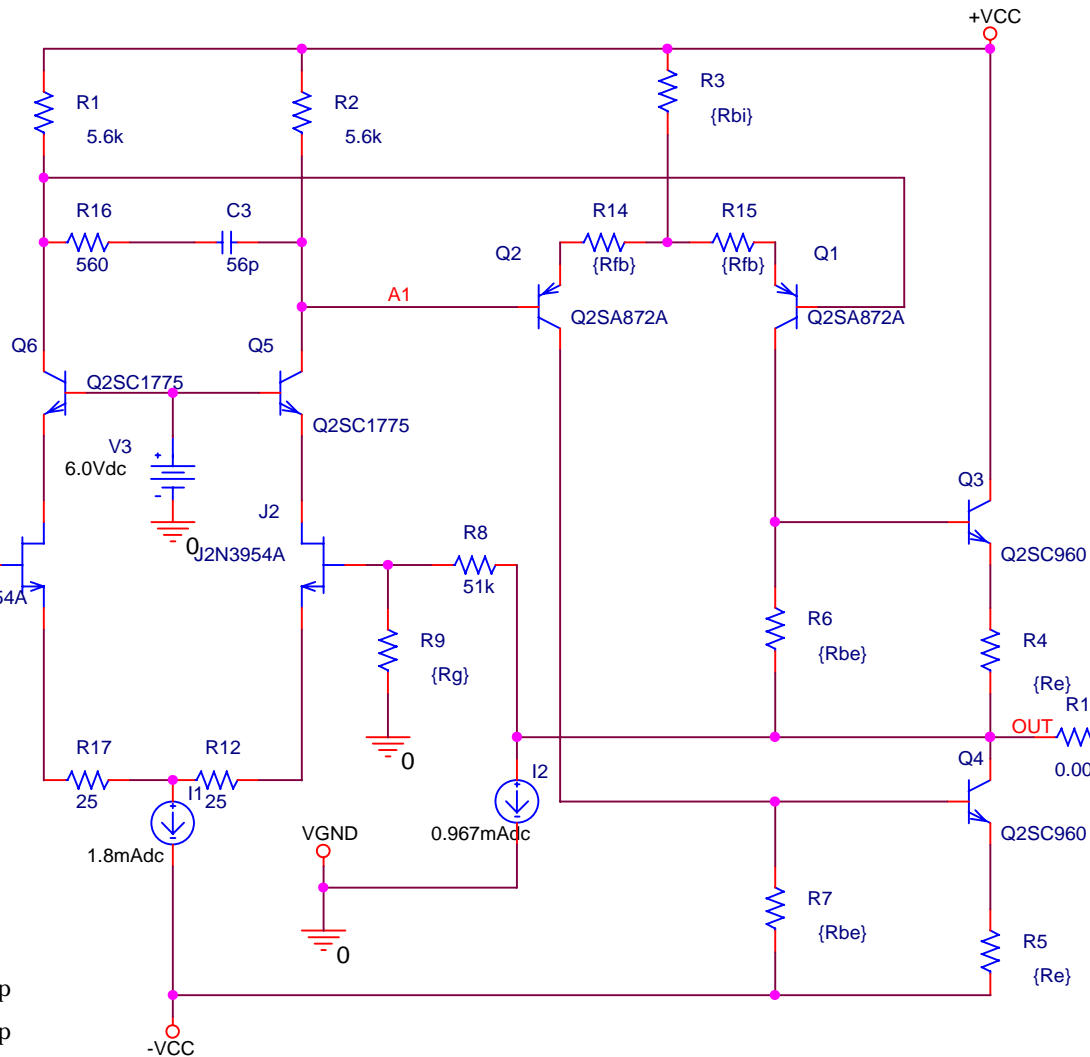
PULSE(-0.3398 0.3393 1u 0p 0p 50u 101u)
 SIN(0 0.330 25k)



TRAN = sin(0 0.330 25k)

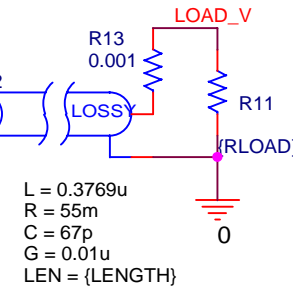
VAMPL=0.330 \rightarrow Vout=25Vp

VAMPL=0.132 \rightarrow Vout=10Vp



MOGAMI 2497
 $Z = 75 \text{ OHM}$, $C = 67pF/m$
 $R = 55mOHM/m$
 $L = 376.9nH$
 $G = 0.01 \text{ uS/m}$

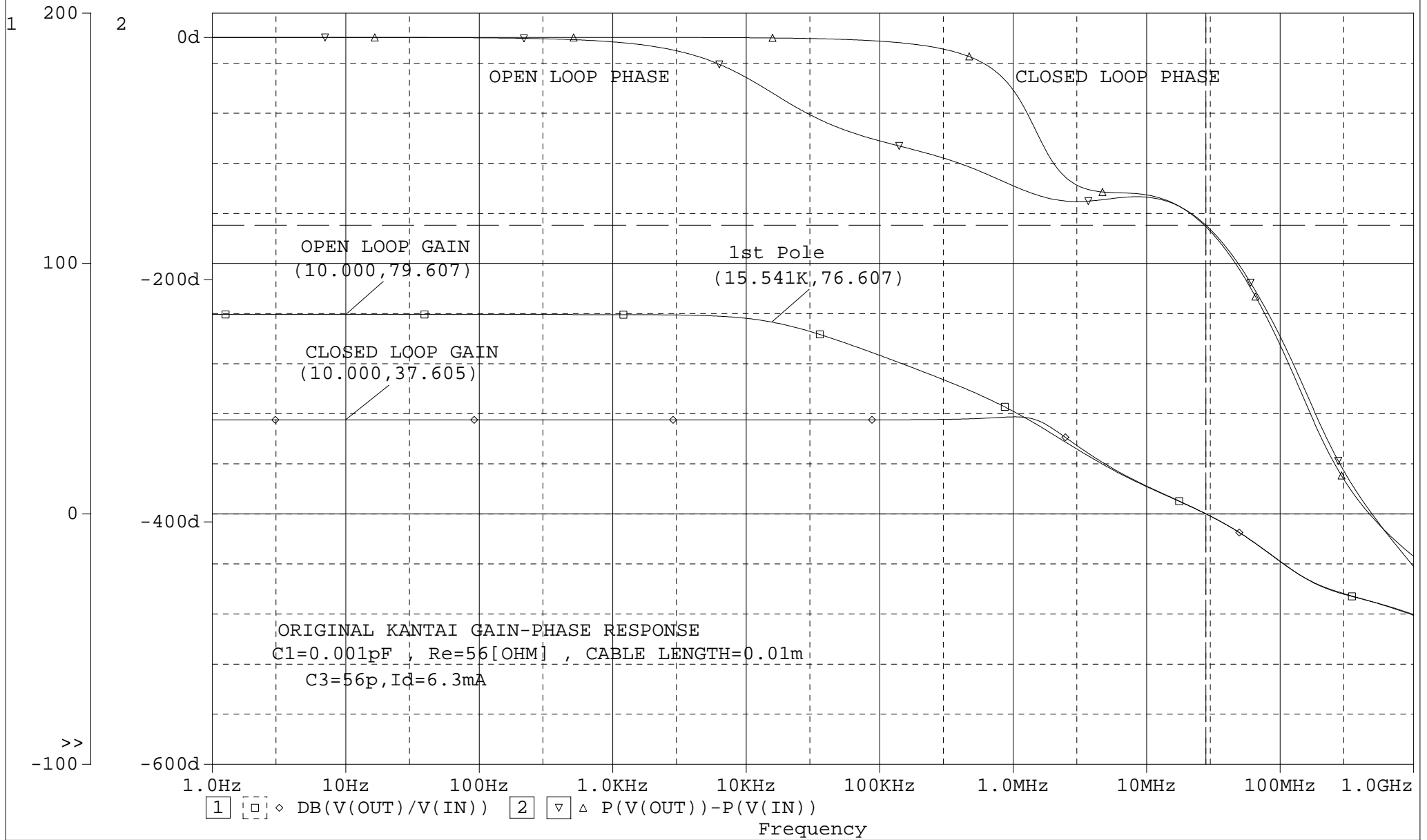
CANARE L-4E6S
 $Z = 44 \text{ OHM}$, $C = 185pF/m$,
 $R = 9.8OHM/100m \rightarrow 98mOHM/m$
 $L = 0.358uH/m$
 LEN=LENGTH (m)
 Resistor Hot-Cold
 $\rightarrow 100MOHM/m$
 $\rightarrow G = 0.01 \text{ uS/m}$



$L = 0.3769u$
 $R = 55m$
 $C = 67p$
 $G = 0.01u$
 LEN = {LENGTH}

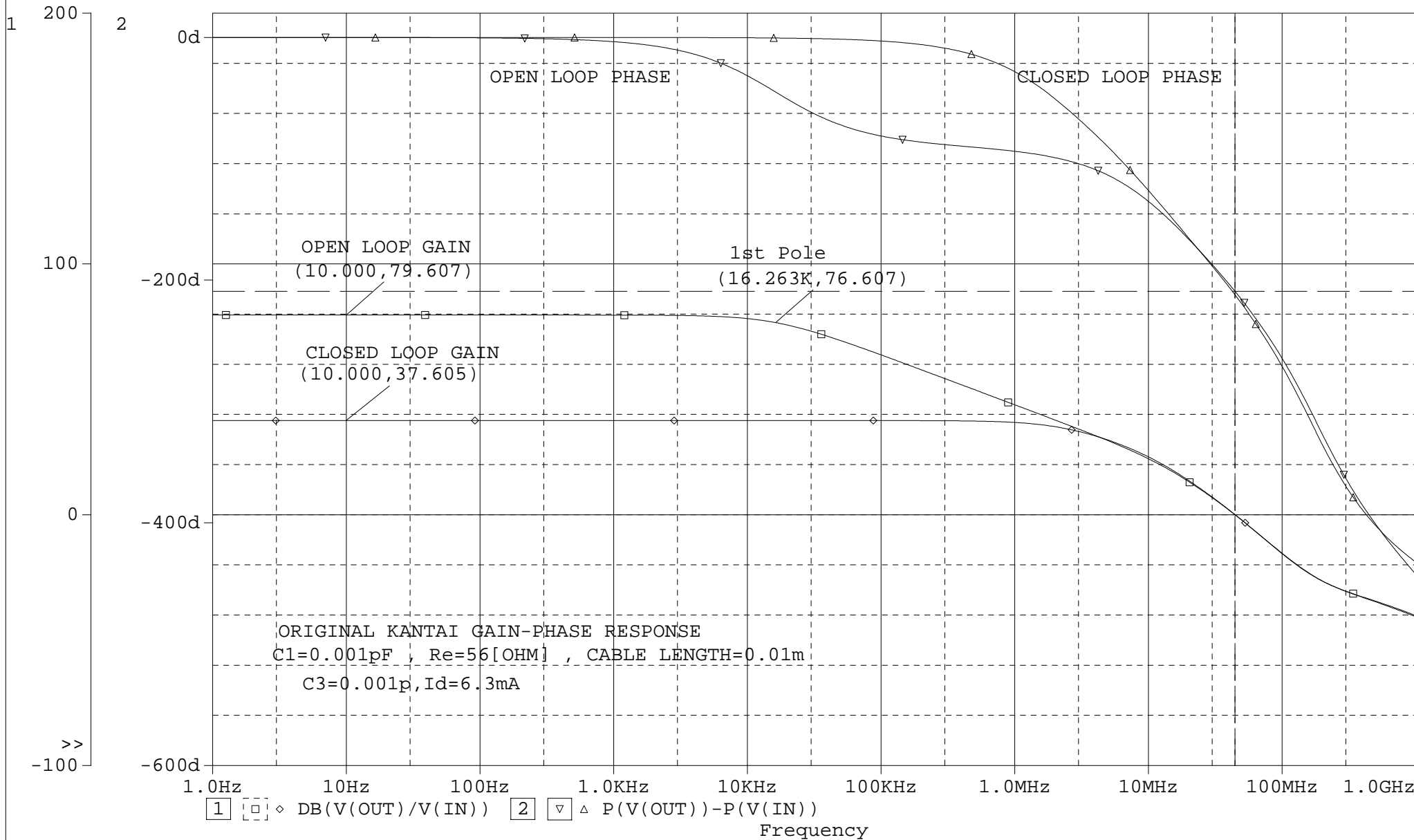
Title		
BiTr KANTAI ORIGINAL DC MICROPHONE		
Size	Document Number	Rev
A	<Doc>	1
Date:	Monday, July 12, 2004	Sheet 1 of 1

(A) kantai_org-SCHEMATIC1-ac.dat (active)



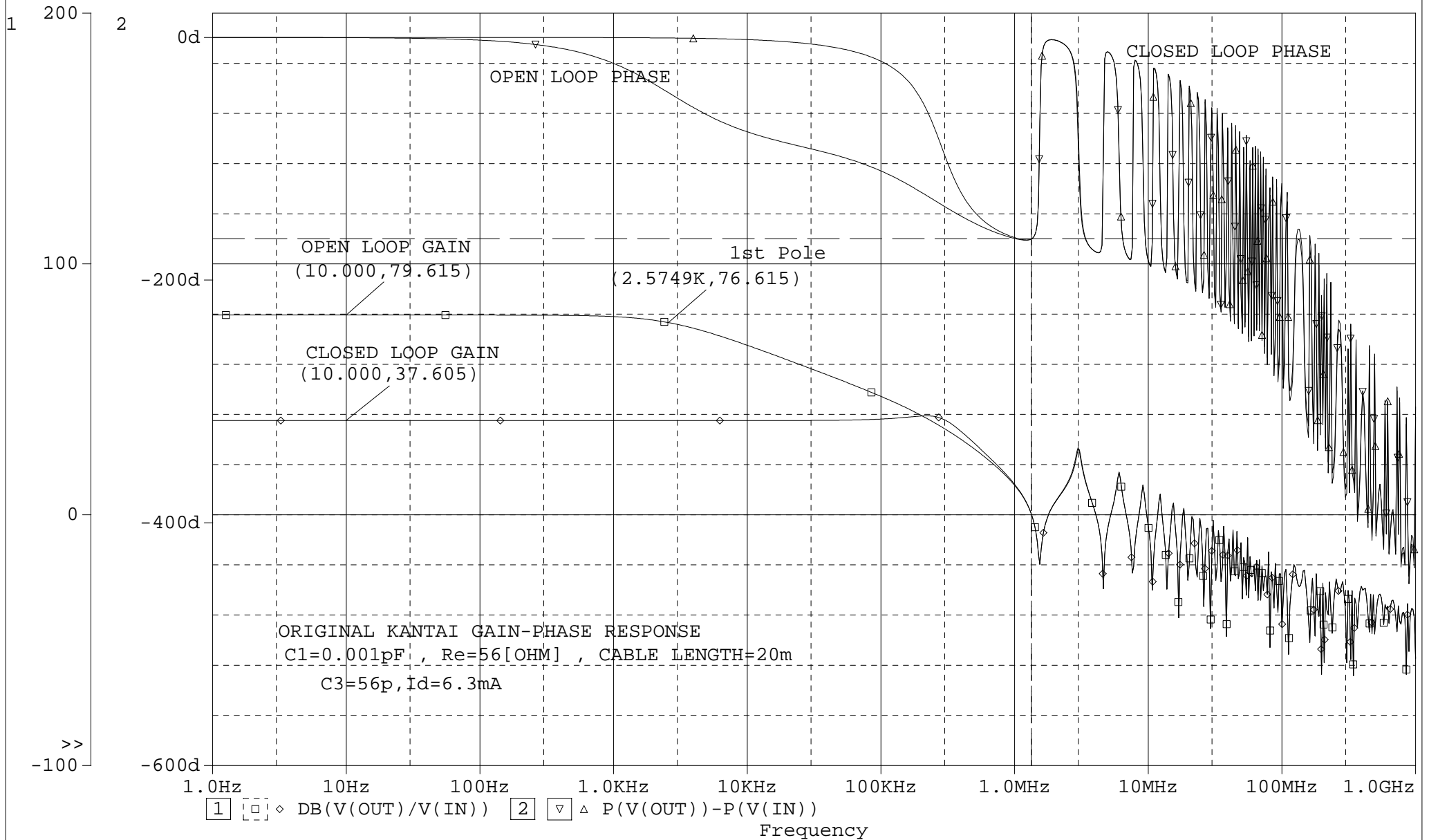
A1: (27.754M, 0.000) A2: (27.754M, -154.981) DIFF(A): (0.000, 154.981)

(A) kantai_org-SCHEMATIC1-ac.dat (active)



A1: (44.339M, 0.000) A2: (44.339M, -209.171) DIFF(A): (0.000, 209.171)

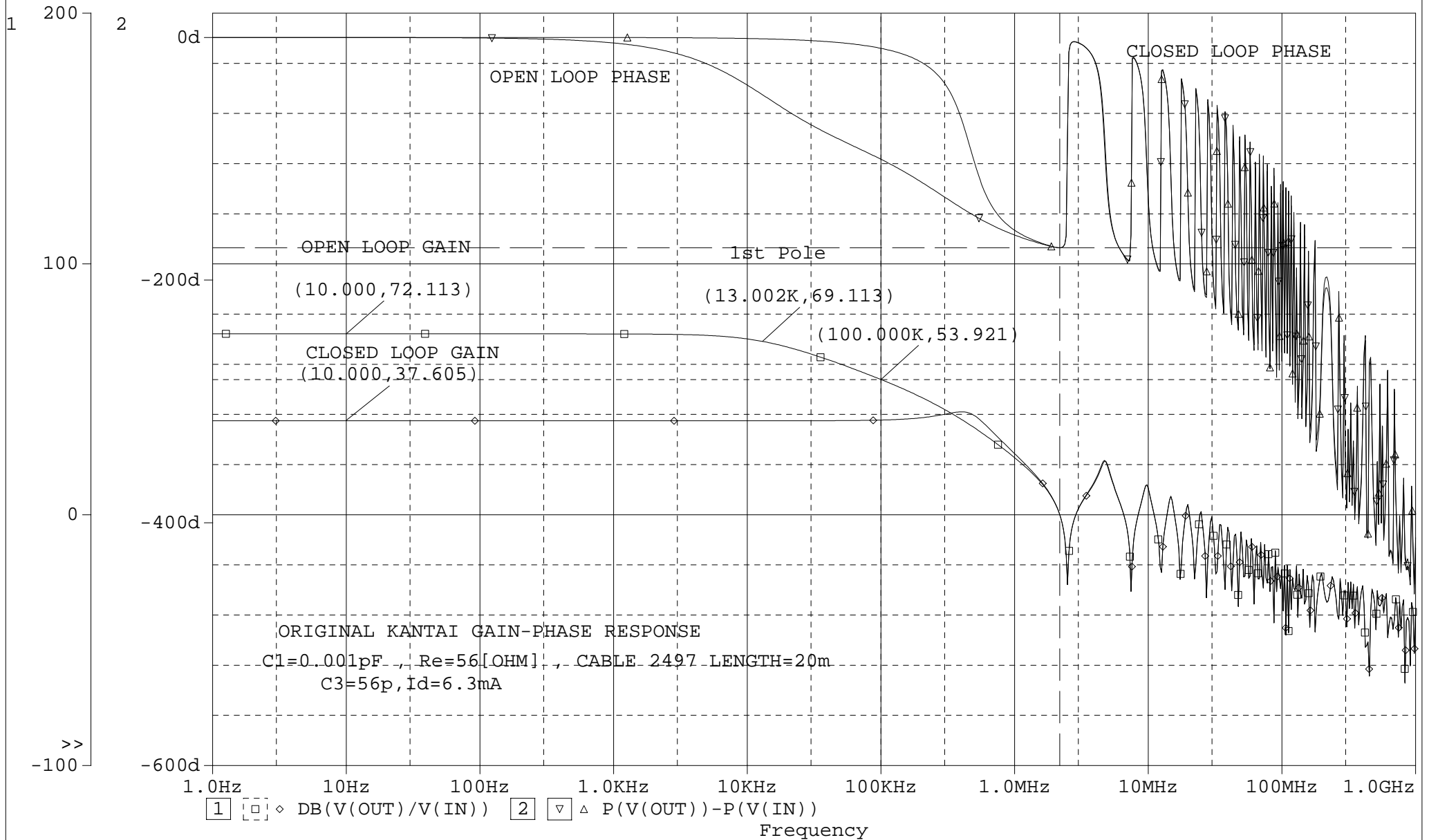
(A) kantai_org-SCHEMATIC1-ac.dat (active)



ORIGINAL KANTAI GAIN-PHASE RESPONSE
C1=0.001pF , Re=56[OHM] , CABLE LENGTH=20m
C3=56p, Id=6.3mA

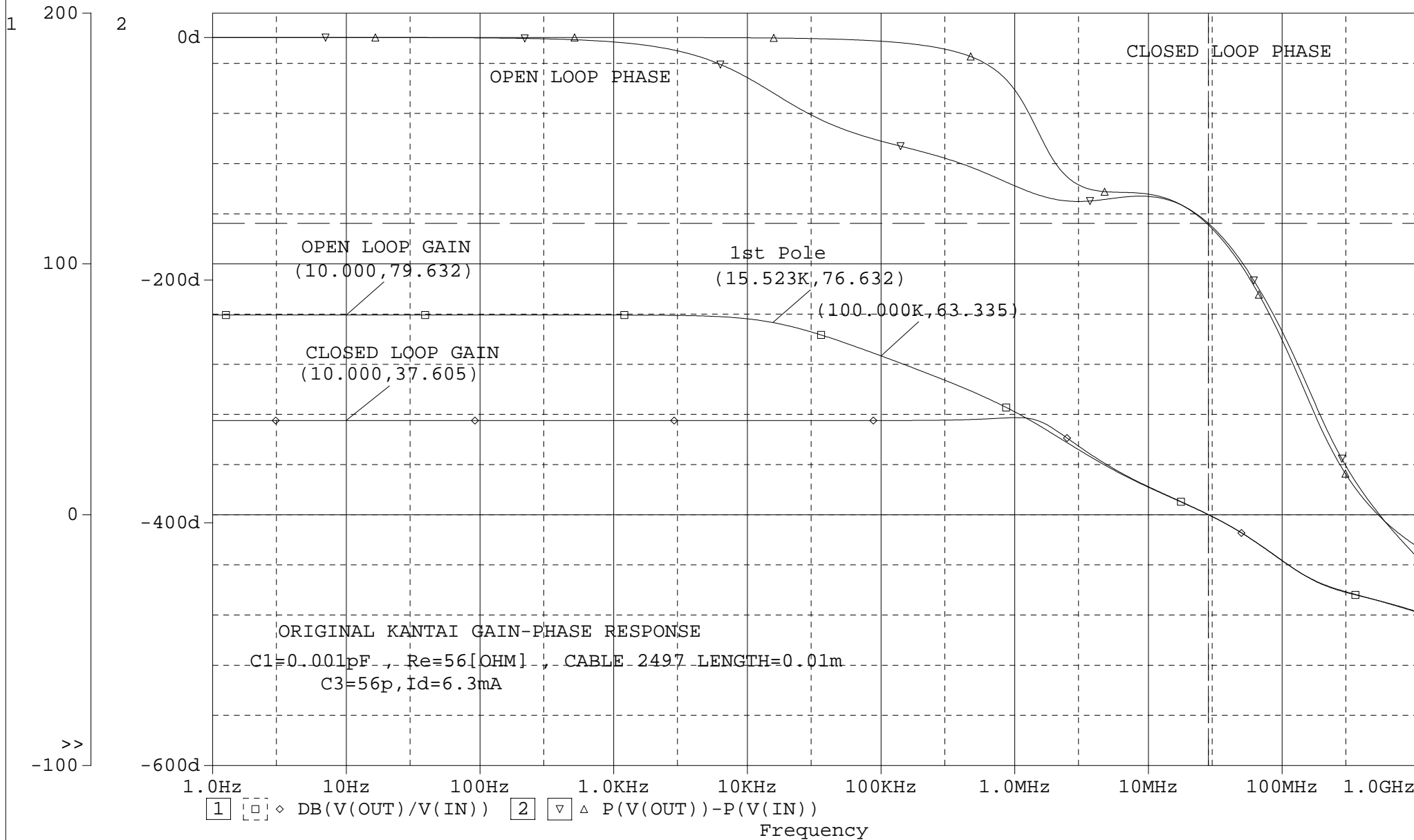
A1:(1.3377M,0.000) A2:(1.3377M,-166.027) DIFF(A):(0.000,166.027)

(A) kantai_org-SCHEMATIC1-ac.dat (active)



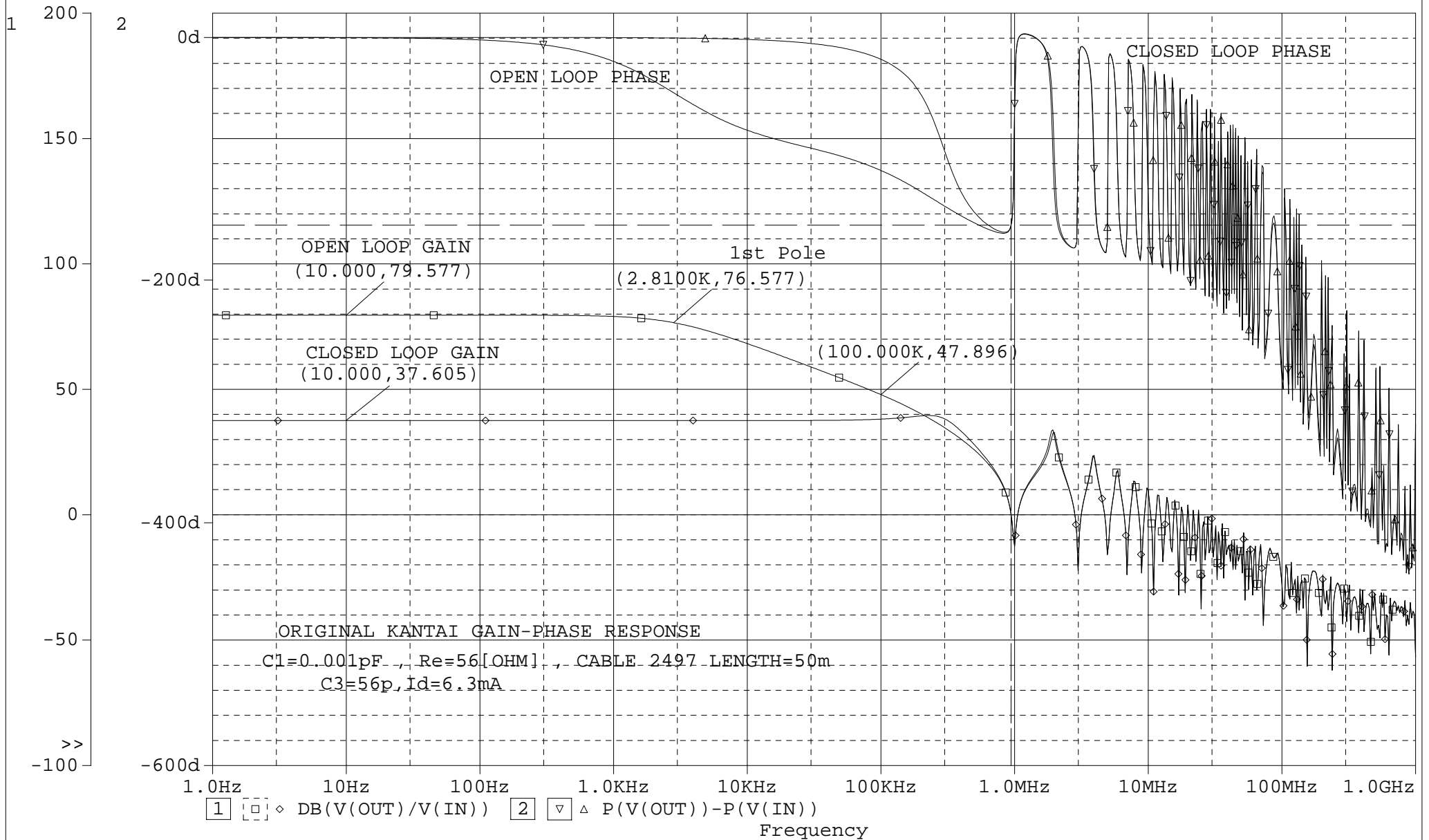
A1: (100.000K, 53.921) A2: (2.1787M, -173.288) DIFF(A): (-2.0787M, 227.209)

(A) kantai_org-SCHEMATIC1-ac.dat (active)



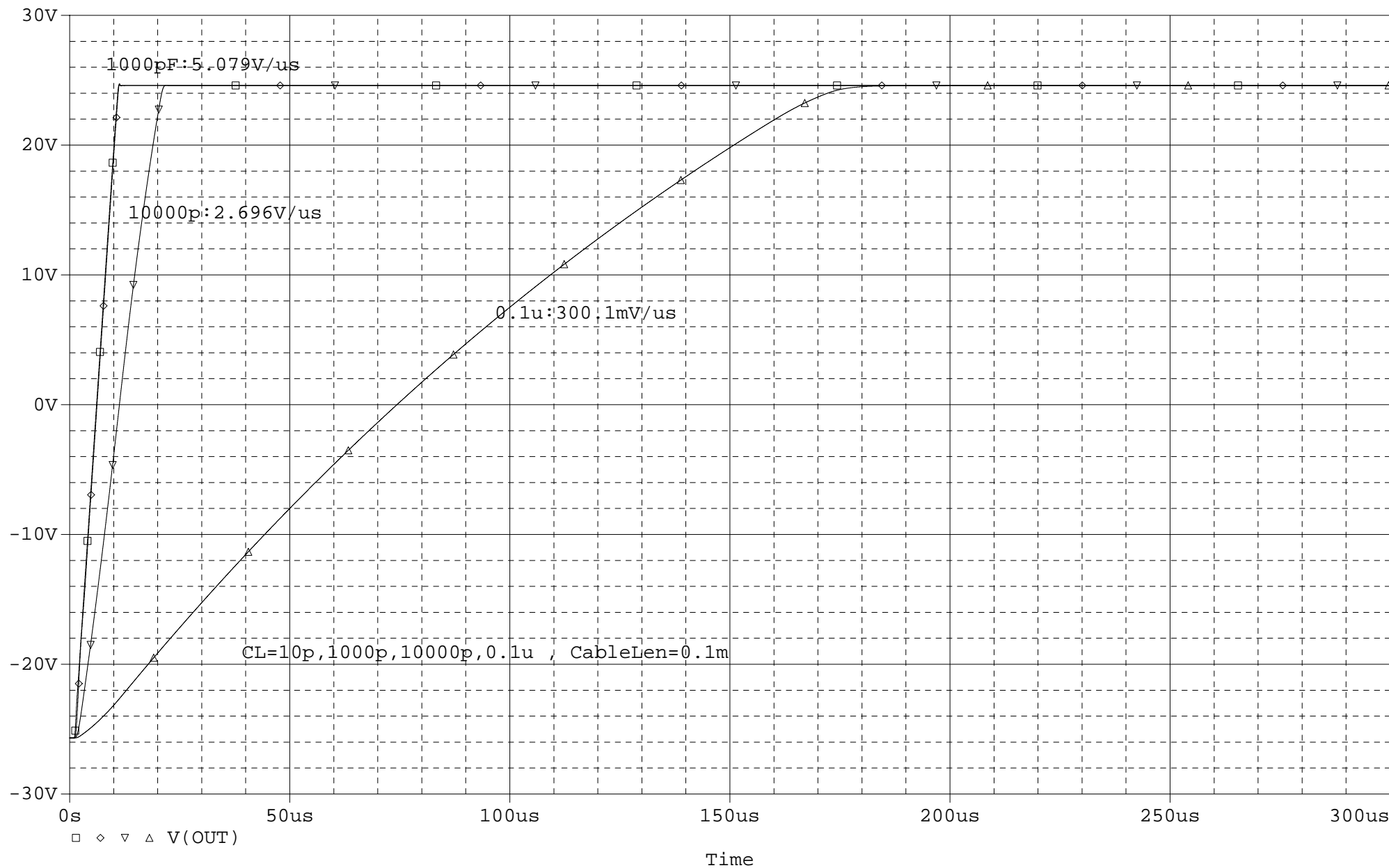
A1: (28.092M, 0.000) A2: (28.092M, -153.198) DIFF(A): (0.000, 153.198)

(A) kantai_org-SCHEMATIC1-ac.dat (active)

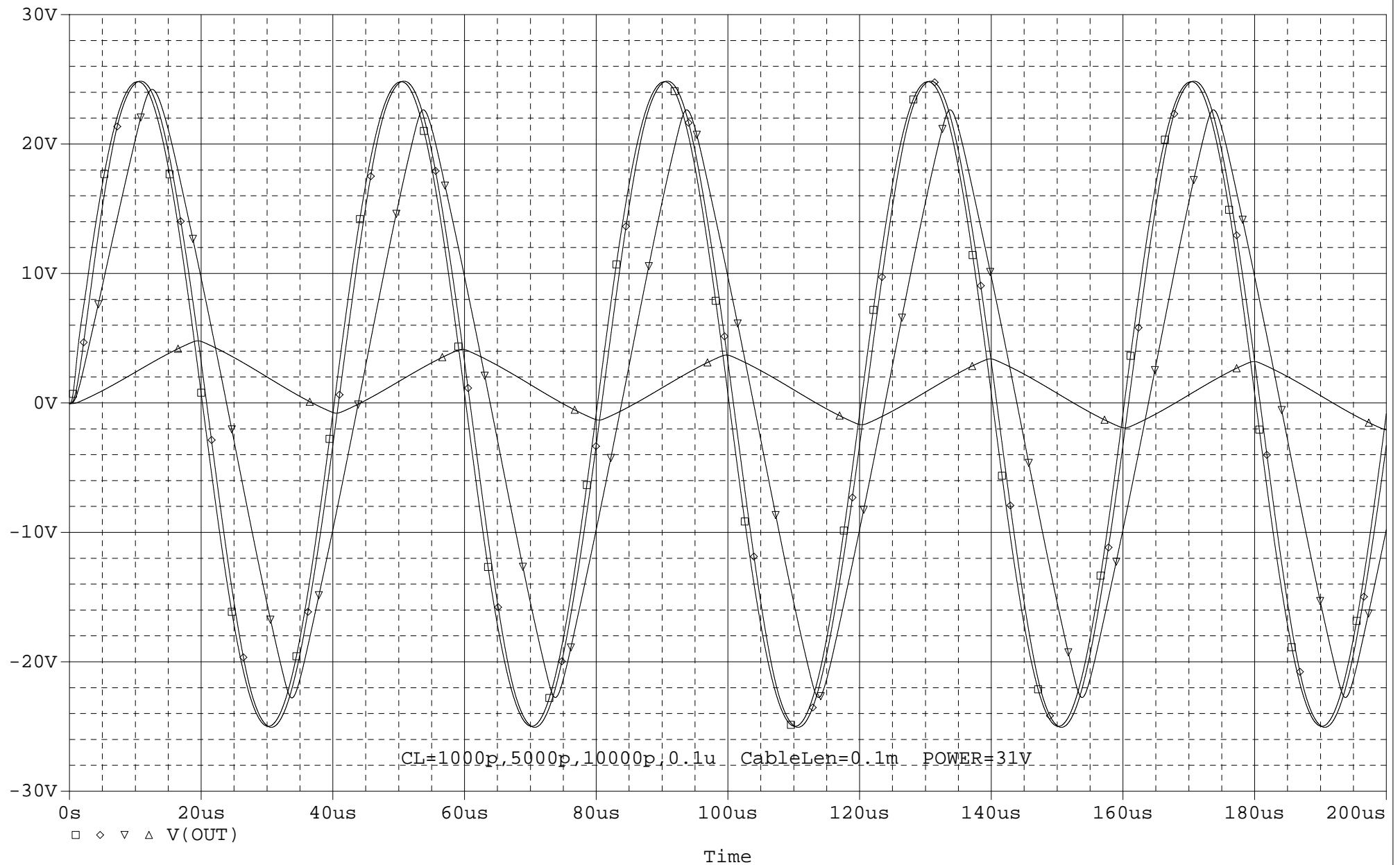


A1: (941.100K, 0.000) A2: (941.100K, -154.674) DIFF(A): (0.000, 154.674)

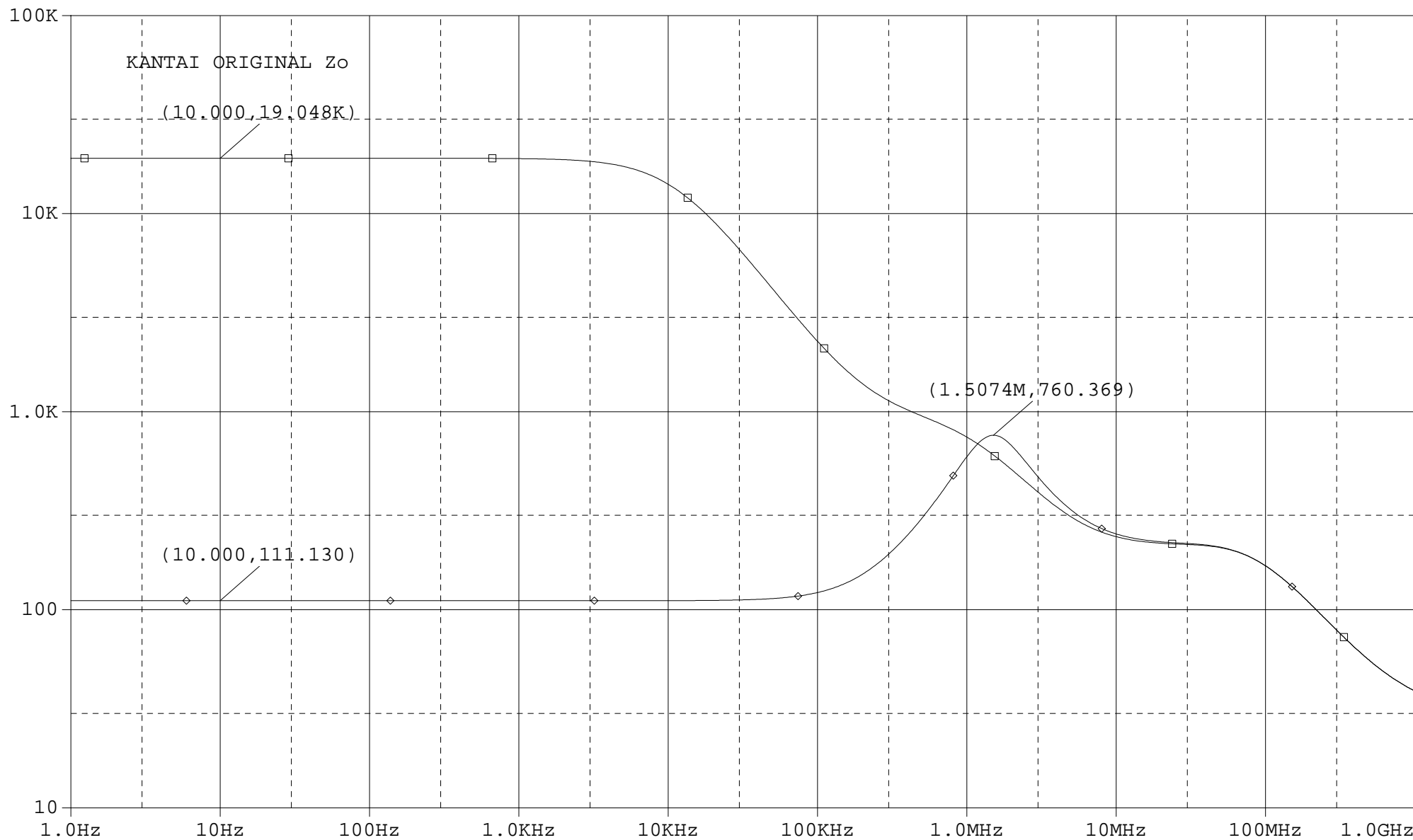
(A) kantai_org-SCHEMATIC1-TRAN.dat (active)



(D) kantai_org-SCHEMATIC1-TRAN_SIN.dat (active)



(A) kantai_org-SCHEMATIC1-AC_Zo.dat (active)



□ ◇ $V(OUT2)/I(R10)$

Frequency