5.

CLKBUFXL:TPHL-TPLH小

BUFXL:TPHL-TPLH大

6.

CLKBUFXL:

TPLH:0.058+5.274\*0.1=0.5854(ns), TPHL=0.064+4.661\*0.1=0.5301(ns)

BUFXL:

TPLH:0.059+5.775\*0.1=0.6365(ns), TPHL=0.084+3.417\*0.1=0.4258(ns)

7.

where D �is the duty cycle, W ��wwis the pulse width (pulse active time), and �T is the total period of the signal.

W9=5-9\*(0.5854-0.5301)=4.5023

W10= W9-(0.058-0.064)=4.5083

duty cycle= W10/10\*100%=45.083%

8.

W9=5-9\*(0.6365-0.4258)=3.1037

W10= W9-(0.059-0.084)=3.1287

duty cycle= W10/10\*100%=31.287%

10.

A:

TPHL:1.115+0.024\*20=1.595(ns)

TPLH:1.150+0.025\*20=1.65(ns)

OE:

TPHL:1.172+0.024\*20=1.652(ns)

TPLH:1.151+0.025\*20=1.651(ns)

13.

max capacitance=0.150000(pF)

leakage power=247.448682(pW)

15.

max capacitance=0.150000(pF)

leakage power=5.896343(pW)

20.

max width:

met1:9.0, met2:9.0, met3:9.0, met4:9.0, met5:9.0, met6:9.0

pitch setup:

met1:0.560, met2:0.660, met3:0.560, met4:0.660, met5:0.560, met6:1.320

21.

OBS

LAYER met1 ;

RECT 5.530 2.160 9.610 2.560 ;

RECT 4.140 2.210 5.530 2.510 ;

RECT 4.050 1.490 4.140 3.290 ;

RECT 3.840 1.390 4.050 3.290 ;

RECT 2.370 1.390 3.840 1.790 ;

RECT 3.740 2.840 3.840 3.290 ;

RECT 2.670 2.840 3.740 3.140 ;

RECT 1.500 2.070 3.600 2.470 ;

RECT 2.270 2.840 2.670 3.820 ;

RECT 1.260 1.390 1.500 2.990 ;

RECT 0.970 1.390 1.260 1.790 ;

RECT 1.220 2.750 1.260 2.990 ;

RECT 0.820 2.750 1.220 3.150 ;

END