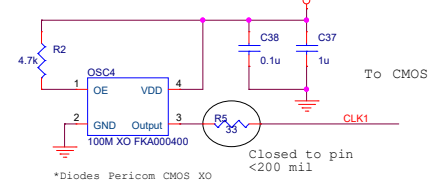
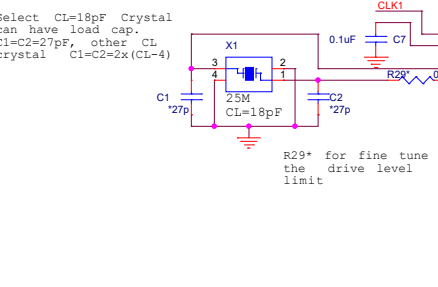
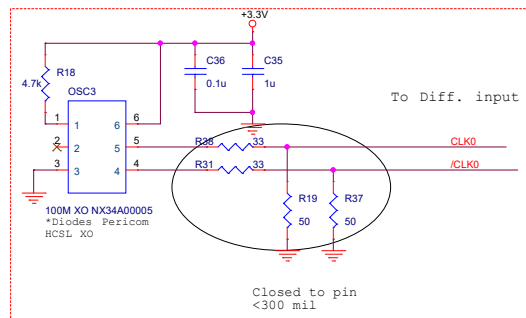
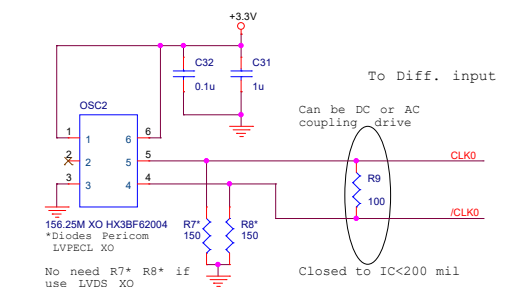
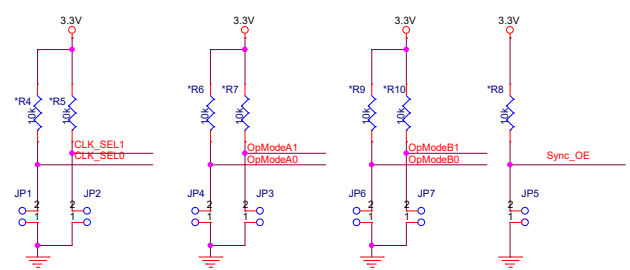
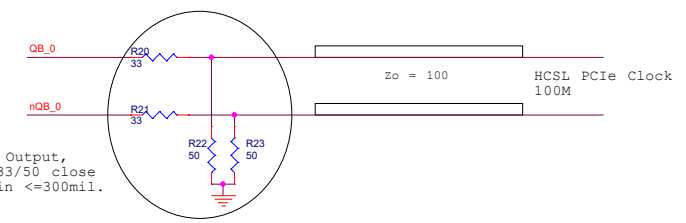
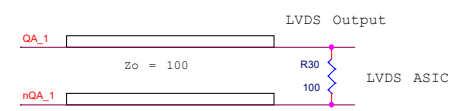
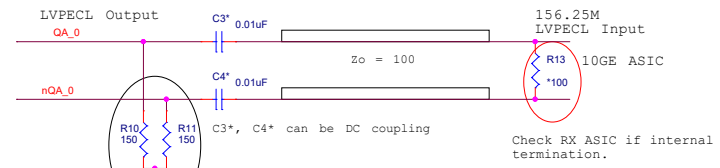


VDDO are output supply, design VDD = or > VDDO

Select CL=18pF Crystal can have load cap. Cl=C2=27pF, other CL crystal Cl=C2=2x(CL-4)



Device setting:  
Input CLK\_SEL[1,0]:  
Set CLK\_SEL0 logic in R4/JP1, CLK\_SEL1 in R5/JP2  
0 0 IN0  
0 1 IN1  
1 X XTAL  
OPMODEA/B[1,0]:  
Set OPMODEA0 logic in R6/JP4, OPMODEA1 in R7/JP3, OPMODEB0 logic in R9/JP6, OPMODEB1 in R10/JP7  
0 0 LVPECL  
0 1 LVDS  
1 0 HCSL  
1 1 Hi-Z  
Sync\_OE:  
Set Sync\_OE logic in R8/JP5  
Set "0" for Ref Out disabled  
Set "1" for Ref Out enabled



Title			
Pi6C49S1510A Application Circuit			
Size	Document	Number	Rev
Custom	Diodes Inc. Clock IC Application Engineering		1.0
Date:	Monday, October 14, 2024		
Sheet		1	of 1

App Note:  
1. Select IN0, IN1 or XTAL as input ;  
2.1 Each VDD pin needs 0.1u +1uF decoupling close to pin. (e.g.: VDD, VDDO, ...etc)  
2.2 VDD use small R=1~2 ohm or FB(ferrite bead)+C=10uF filtering for better DC/DC ripple noise rejection  
3. LVPECL Output: Place 150ohm pull-down in comp. side close to pin <=300mil.  
HCSL Output: Place serial 33 ohm and 50ohm pull-down in comp. side close to pin <=300mil.  
4. Suggest to use DC coupling in LVPECL/LVDS drive input clock with 100ohm cross at input pins <200mil; HCSL drive input clock without 100 ohm cross at input pins.  
5. when in AC input drive either just use 100ohm cross to bias balance  
6. Put 475 ohm resistor closed to IREF Pin