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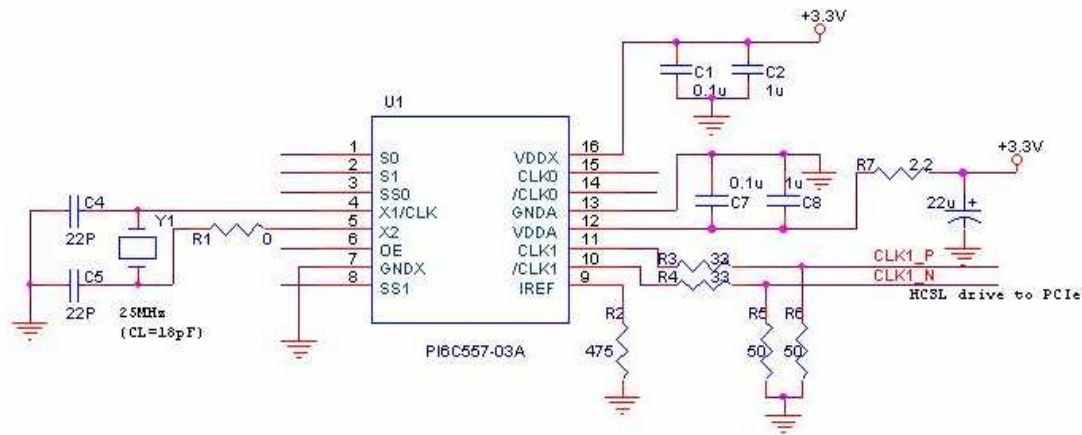
## PI6C557-03A Application and PCB Guide

Pericom Application Engineering

### 1. Introduction

PI6C557-03A is a high performance clock generator for PCIe 1.0 and 2.0 reference clock applications. This document is to provide customer application information.

### 2. Application Schematic



Note:

- 1) Put each VDD 0.1uF decoupling cap. at least, all GNDs on one solid GND plane
- 2) On VDDA use serial 2.2 ohm in R7 to replace FB for better low frequency noise filtering
- 3) Leave un-used CLKx and /CLKx open
- 4) For small size crystal 3225 for example, choose R1=360
- 5) For output frequency and SSCG setting, please refer to the datasheet logic table

### 3. Crystal Circuit Layout

- 1) X1 and X2 pins are connected to crystal trace loop which should be very narrow without any board via in the loop and need keep-out around the traces;
- 2) Place crystal closer to the IC X1, X2 pins as possible and route crystal C1 and C2 load caps. on the top layer without via during to the crystal pins;
- 3) Keep load cap. C1 and C2 GND pins close together to reduce board noise coupling into these caps.

### 4. HCSL Differential Output Layout

Place 33ohm serial and 50 ohm pull down <250mil close to IC output pins on comp. side. A 475 ohm resistor to GND must be connected on pin 9 (IREF) for output drive current control.