
CS2600 Schematic and Layout Guidelines

Introduction

This document describes the schematic and layout guidelines for the CS2600 Fractional-N Clock Synthesizer and Multiplier.

Table of Contents

1	General Board Considerations	1
2	Layout Guidelines	2
2.1	Note 1: Device Decoupling	2
2.2	Note 3: Crystal and crystal capacitors	2
2.3	Note 6: Ground Paddle	3
3	Revision History	4

1 General Board Considerations

- Use controlled 50Ω characteristic impedance for digital signals unless stated otherwise.

2 Layout Guidelines

2.1 Note 1: Device Decoupling

- Place VDD decoupling capacitors close to device on same side of PCB.

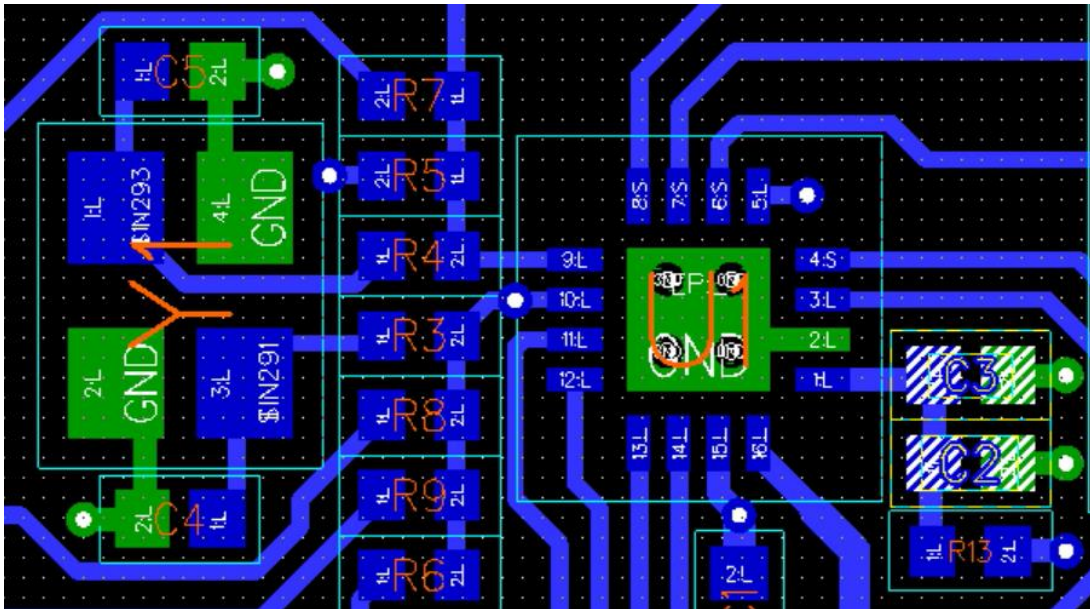


Figure 1 - Device decoupling with VDD decoupling highlighted

2.2 Note 3: Crystal and crystal capacitors

- Place crystal and crystal capacitors close to device on same side of PCB.
- Not that R3 is not required on a production PCB with CS2600

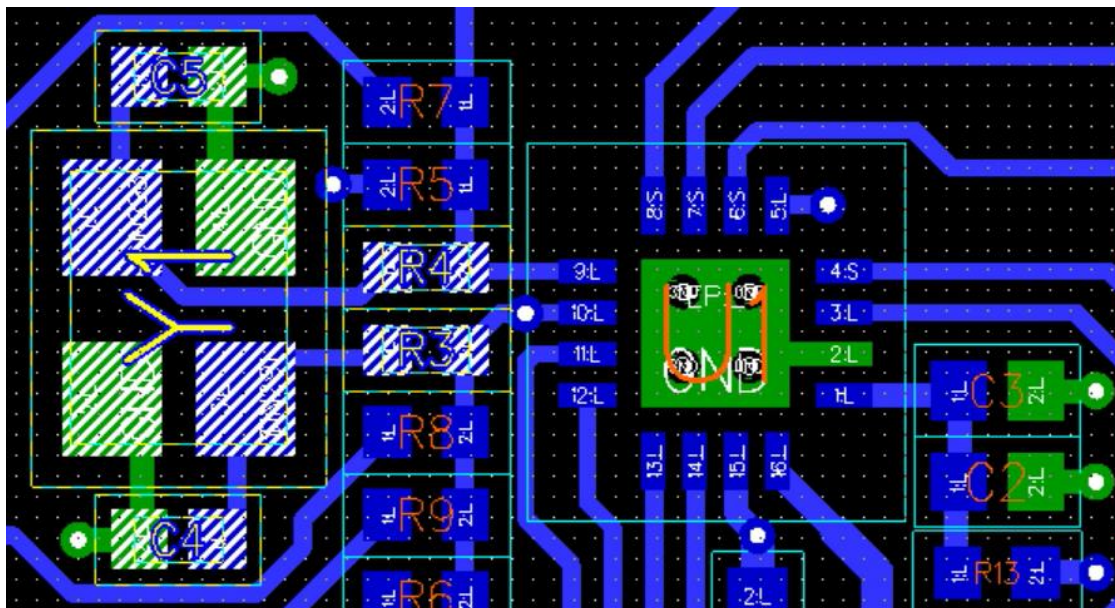


Figure 2 - Crystal and crystal capacitors highlighted

2.3 Note 6: Ground Paddle

- The paddle ground plane must be connected to the ground plane directly underneath the CS2600.
- Route paddle ground plane to pin 2 GND.

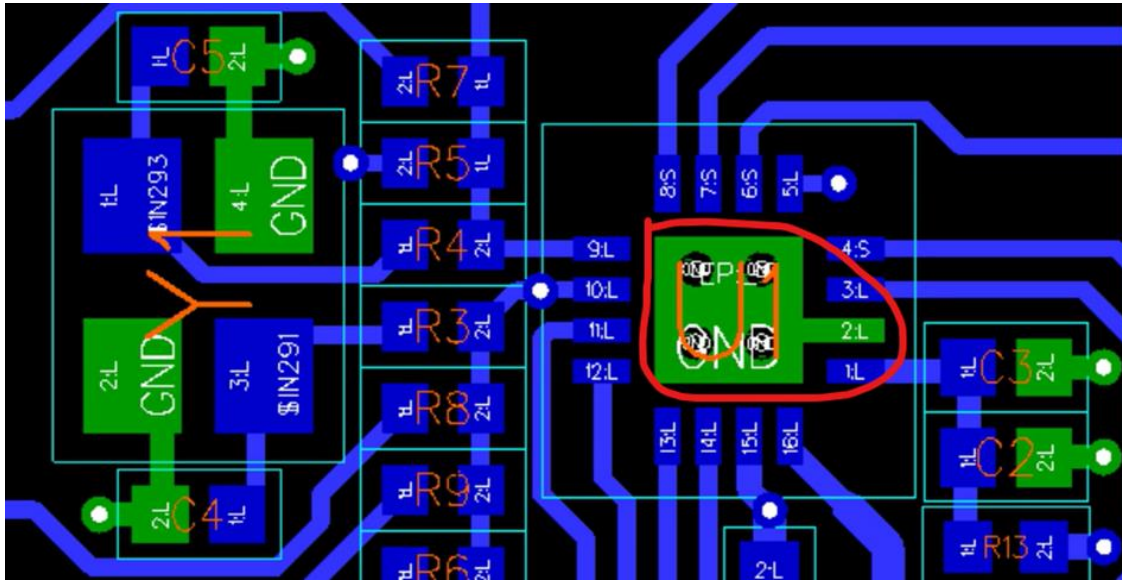


Figure 3 - Connect paddle ground plane to pin 2 GND

3 Revision History

Revision History	
Revision	Changes
1.0 SEP 2024	Initial version.

Contacting Cirrus Logic Support

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