

TPS65921 Silicon Errata ES2.0

This document describes the TPS65921 bugs, limitations, and enhancements with suggested workarounds.

1 32KHz oscillator frequency higher than expected

Impact:

32KHz oscillator frequency is higher, approximately by 30ppm

Description:

Using an external 32KHz (32768Hz) crystal the output frequency should align with the typical output value of 32768Hz. However, it is seen that the output frequency is more (~30ppm). The increase in frequency is due to the internal oscillator load capacitors are disabled.

Workaround:

Calculate the capacitors to account for the internal disabled load capacitors. For e.g. replace a 12.5pF capacitor with 22pF. Increasing the capacitor will center the frequency.

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