



TWR-KV58F220M Errata

Rev. 1.0

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1 Oscillator not functional when operating at 1.8V

Affects **Rev A** boards.

Issue: The oscillator used to drive the EXTAL pin on the target MCU (MKV58F1M0VLQ22) does not operate at 1.8V. There are two reasons for this issue:

1. The chosen oscillator is not rated for voltages below 2.7V
2. The oscillator is not sourced from the V_BRD power rail but rather it is sourced from the P3V3 power rail.

Impact: The impact of this issue is that the target MCU (MKV58F1M0VLQ22) cannot exercise PEE, FBE, or BLPE modes in the 1.8V board configuration using the on-board oscillator.

Workaround: There is currently only one workaround for this issue.

1. Remove resistor R109 and either a) install a 68 ohm resistor onto the R110 pads or b) install lead wires to the pad of either resistor R109 pads or R110 pads and use an external source to drive the desired clock onto the EXTAL pin at a 1.8V level.

2 Incorrect MCU part number

Affects **Rev A** boards.

Issue: On some TWR-KV58F220M boards, the target KV5x device may be incorrectly marked “PKV58F1M0VLQ22” whereas it should be “PKV58F1M0VLQ24”.

Impact: Incorrectly marked devices may not operate up to 240 MHz under all operating conditions.

Workaround: There is no workaround for this errata.



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