

PCN# 20230511000

Capacitors under socket shorting other caps or pins on:

CMV2k4k Sensor Board -
All CMV2k4k Sensors & Evaluation kits

Date: May 11, 2023

To: Purchasing Agents

Dear Customer,

This is an initial announcement of a change to a product that is currently offered by Critical Link. The details of this change are on the following pages.

For questions regarding this notice, contact info@criticallink.com

Sincerely,

Critical Link, LLC

Phone: (315) 425-4045

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PCN Number: 20230511000

PCN Date: May 11, 2023

Title: Socket Capacitor Shorts

Contact: info@criticallink.com

Phone: (315) 425-4045

Ship Date: Starting May 2023

Overview

Changes to the Critical Link, CMV2k4k sensor board are identified in the following sections.

1 Larger Bypass Capacitors Moved Outside of Pin Grid Socket

1.1 Description of Change

Initial runs of the sensor board used in the CMV2K4K cameras suffered higher than expected fallout from solder shorts between the larger bypass capacitors under the sensor socket pins.

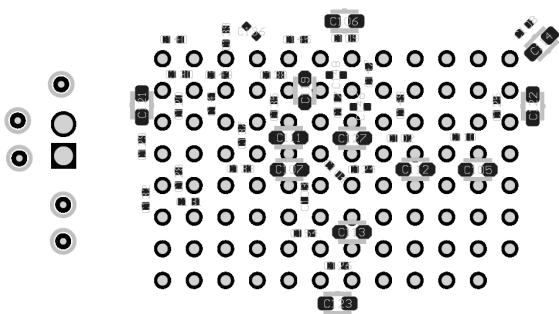


Figure 1: Capacitors Under Sensor Socket

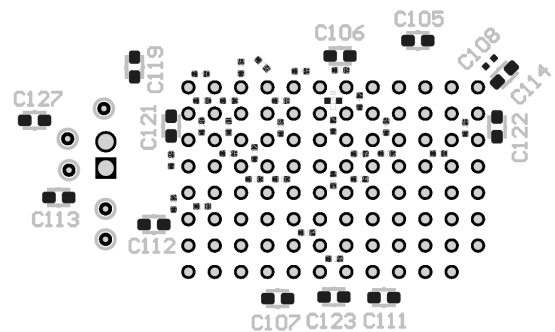


Figure 2: Capacitors Outside Sensor Socket

1.2 Reason for Change

Moving the larger capacitors outside of the socket pin grid and positioning smaller capacitors to be equidistant from the pins reduces the likelihood of shorts during assembly of the thru hole pin grid socket. This socket is assembled at SMT via Pin-in-Paste (PIP) technology.

1.3 Anticipated Impact on Form, Fit, Function (positive / negative)

There is no impact to form, fit, or function. Verification tests were performed on the current sensor boards by removing these capacitors entirely and image data collected showed no increase in noise levels. This is a worst-

case test, since in the updated sensor boards, these capacitors will not be removed but simply moved a few millimeters to the outside of the pin grid socket.

1.4 Anticipated Impact on Quality or Reliability (positive / negative)

This will improve production yield. No other impact on quality or reliability is anticipated.

2 Products Affected

Table 1: Products Affected

Model Number	Starting PCA	Replacement PCA
Evaluation Kit, Camera, CMV2K, Monochrome	80-001568-1	80-001568-2
Evaluation Kit, Camera, CMV2K, Color	80-001569-1	80-001569-2
Evaluation Kit, Camera, CMV4K, Monochrome	80-001570-1	80-001570-2
Evaluation Kit, Camera, CMV4K, Color	80-001571-1	80-001571-2
Board Set, CMV4000, 5CSE_85KLE_1G, Ethernet	80-001579-1	80-001579-2
Assembly, Camera, CMV2K, NIR, CameraLink	80-001635-1	80-001635-2

3 Document Revision History

Date	Version	Change Description
26-June-2023	1.0	Initial Version