

PCN# 20230308000

Obsolete Low ESL (X2Y) Bypass, Decoupling capacitor on:

MitySOM-5CSx
All 5CSE and 5CSX Modules

Date: March 8, 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 the info@criticallink.com

Sincerely,

Critical Link, LLC

Phone: (315) 425-4045

Fax: (315) 425-4048



PCN Number: 20230308000

PCN Date: March 8, 2023

Title: Obsolete X2Y capacitor

Contact: info@criticallink.com

Phone: (315) 425-4045

Ship Date: Starting June 2023

Overview

Changes to MitySOM-5CSx are identified in the following sections.

1 Specialty 1 μF $\pm 20\%$ 10V X5R, Low ESL (X2Y), Ceramic Capacitor is now obsolete.

1.1 Description of Change

Replaced 1 μF $\pm 20\%$ 10V X5R, Low ESL (X2Y) Ceramic Capacitors, MPN: 100X14X105MV4T or CL10A105MP6NXNC, with 0.22 μF $\pm 20\%$ 10V X7R, Low ESL (X2Y) Ceramic Capacitor MPN: 100X14W224MV4T.

1.2 Reason for Change

Original components, MPN: 100X14X105MV4T and CL10A105MP6NXNC, are Obsolete and no longer manufactured.

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

There is no impact to Form, Fit and Function. The replacement component is the same Form, Fit and functionally meets the designed criteria for the MitySOM-5CSx as a Bypass/decoupling solution.

The MitySOM-5CSx is designed using the Power Distribution Network (PDN) tool provided by Intel to validate an effective bypass/decoupling network. This tool was used to verify that the MitySOM-5CSx meets the required bypass/decoupling criteria with the original and the replacement components.

In addition to the above, the MitySOM-5CSx was modified with the replacement component and run through our design validation and verification tests to ensure performance was not impacted.

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

None.

2 Products Affected

Details regarding the full revision history can be located in the MitySOM-5CSx Revision History section on the Critical Link support site.

<https://support.criticallink.com/redmine/projects/mityarm-5cs/wiki>

Model Number	Starting PCA	Replacement PCA
5CSE-L2-3Y8-RC	80-000705RC-9	N/A
5CSE-S2-3Y8-RI	80-000729RI-9	N/A
5CSE-H4-3YA-RC	80-000713RC-9	N/A
80-001060RC-9	80-001060RC-9	N/A
5CSE-H4-3YA-RI	80-000713RI-9	N/A
5CSX-H5-4YA-RC	80-000714RC-9	N/A
5CSX-H5-4YA-RI	80-000714RI-9	N/A
5CSX-H6-42A-RC	80-000642RC-9	N/A
5CSX-H6-42A-RC-CAL	80-001251RC-9	N/A
5CSX-H6-42A-RI	80-000642RI-9	N/A
5CSX-H6-42A-RI-3CR	80-001462RI-9	N/A
5CSX-H6-4YA-RC	80-000772RC-9	N/A
5CSX-H6-4YA-RI	80-000772RI-9	N/A
80-001055RI-9	80-001055RI-9	N/A
5CSX-H6-53B-RC	80-000646RC-9	N/A
5CSX-H6-XYA-RI-WP	80-001390RI-3	N/A

Table 1: Products Affected

See MitySOM-5CSx Datasheet and Carrier Board Design Guide for migration options across the MitySOM-5CSx family.

3 Document Revision History

Date	Version	Change Description
<08-March-2023>	1.0	Initial Version