

MP-105_QR Code Requirements for PCBAs

Revision : 02

Effective date: 2026-04-24

Summary

1. LABEL MATERIAL SPECIFICATIONS
2. LABEL CONTENT SPECIFICATIONS
3. LABEL INSTALLATION REQUIREMENTS

The label affixed to Kinova's printed circuit board assemblies must meet the following requirements:

- Material type: Polyester or polyimide
- Color: White
- Adhesive: Acrylic
- ESD: The label must be protected against electrostatic discharge (ESD) and comply with the ANSI/ESD S20.20-2014 standard.
- Thickness: No requirement
- Finish: Matte or glossy
- Dimensions: 0.25 in x 0.25 in
- Regulations: The label must comply with the current applicable version of the EU REACH regulation and the RoHS directive.

The printed circuit board label (QR Code) must contain the following information:

- Assembly Part No. (P/N): #ERP_Kinova, the Kinova part number of the assembly must match the ERP information for this P/N.
- Week and year: WWYY, the week and the last two digits of the assembly's production year.
- Serial No. (S/N): YYYY, the manufacturer's assembly serial number.

Note: The manufacturer is permitted to reset this serial number with each new date code (WWYY).

- REV: ZZZ, refers to the revision of the Kinova printed circuit board assembly (e.g., A01, B,...).
- Manufacturer Identification: XXX, up to 3 alphanumeric characters (optional).



Barcode Requirements:

- Must be in "Datamatrix" format.
- The barcode must contain all the information:
#ERP_Kinova-XXX-WWYY-YYYY-ZZZ.

Note: The manufacturer is responsible for the datamatrix content (ensuring it is scannable).

Human-Readable Information:

- YYYY: Must refer to the 4 unique digits of the manufacturing lot's Serial No. (S/N).
- ZZZ: Must refer to the revision of the PCBA assembly.

The following requirements must be met for the label:

- The label must be durable and must not fade.
- The label must be able to withstand reflow temperatures if it is installed before the manufacturing process. Polyimide material would therefore be recommended. If it is installed after the manufacturing process, polyester material would also be suitable.
- The label must be installed in the area indicated by the marking  on the printed circuit board.

Approvals

	NAME	SIGNATURE	DATE
PRODUCTION ENGINEERING			
ENGINEERING			
QUALITY			
QUALITY ASSURANCE			

Revision History

REV	#ECO	DESCRIPTION	AUTHOR
01	N/A	N/A	N/A
02	ECO_2026-010	ADDITION OF 3 NEW CHARACTERS TO IDENTIFY PCBA MANUFACTURERS. ENGLISH VERSION OF MP-105. <i>RELEASED IN REVISION 02 TO MATCH THE FRENCH VERSION</i>	CHRISTIAN SIERO