
M.2 Loopback Module 2230 M-key

Overview

Description

The M.2 Loopback Module, designed in the M-key 2230 NGFF form factor, is a tool for testing the signal integrity of PCIe lanes in custom M.2 host board designs. This module features a high-frequency printed circuit board (PCB) with controlled impedance traces that implement the loopback of each of the four PCI Express lanes.

Key Specifications:

- **Form Factor:** M-key 2230 NGFF
- **Supported PCIe Lanes:** 4x PCI Express lanes
- **Maximum PCIe Standard:** Up to PCIe Gen4 (16GHz)
- **Components:** No electronic components, purely passive design



M.2 Loopback Module

Ordering

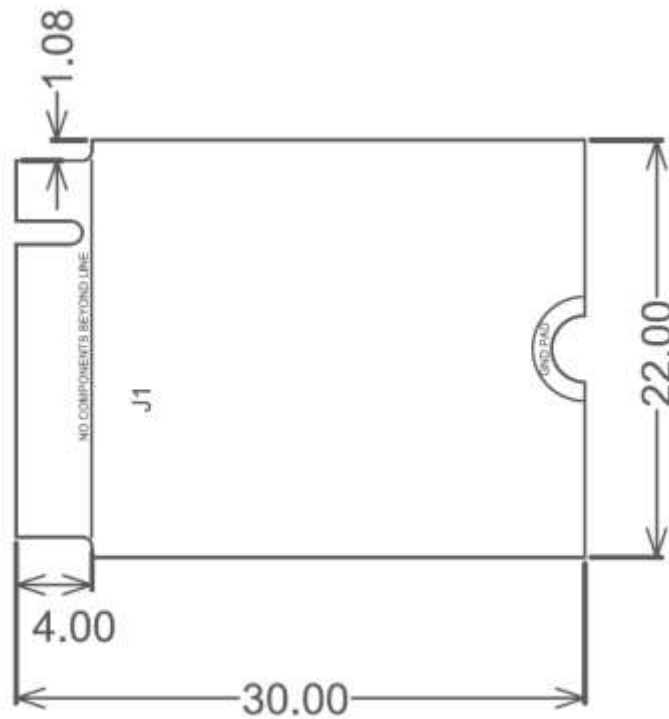
The M.2 Loopback Module 2230 M-key can be purchased from the vendors listed below. The links under the part number column will take you to the corresponding order page.

Vendor	Part name	Part number
Opsero	M.2 Loopback Module 2230 M-key	OP157
Digi-Key	M.2 Loopback Module 2230 M-key	OP157

Mechanical Information

Dimensions

The mechanical dimensions of the M.2 Loopback Module 2230 M-key are illustrated in the figure below. All dimensions are in millimeters (mm).



Board Revision History

Rev A

- Date of first manufacture: 2024-07-15
- Commercially released

References

Board Files

Rev-A

- [M.2 Loopback Module 2230 M-key Rev-A Schematics PDF](#)
- [M.2 Loopback Module 2230 M-key Rev-A Assembly Drawing PDF](#)

Revision History

Date	Version	Description
2024-07-30	1.0	Initial PDF release.

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