multiLane

Data Center Test Solutions

# OSFP-XD

## Module and Host Compliance Boards

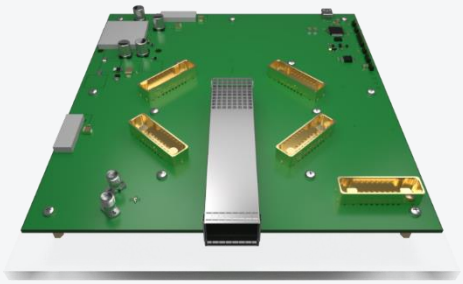
**ML4064-XD-MCB-112-MXPM70**

**ML4064-XD-MCB-112-SMPS**

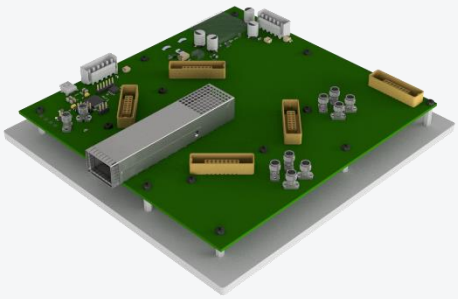
**ML4064-XD-HCB1/2-112**

### Industry Leading OSFP-XD Test Fixtures:

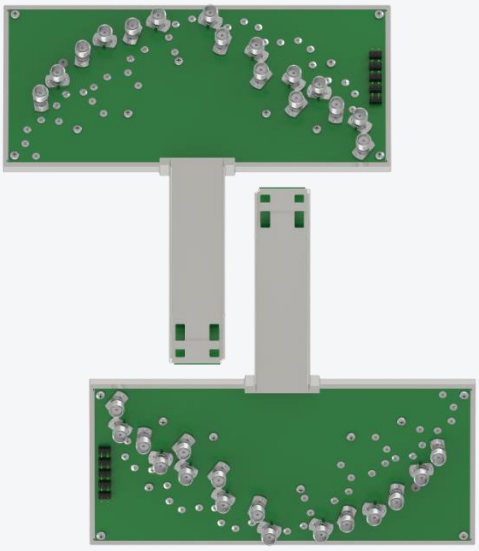
**OSFP-XD Module Compliance Boards**



**ML4064-XD-MCB-112-MXPM70**



**ML4064-XD-MCB-112-SMPS**

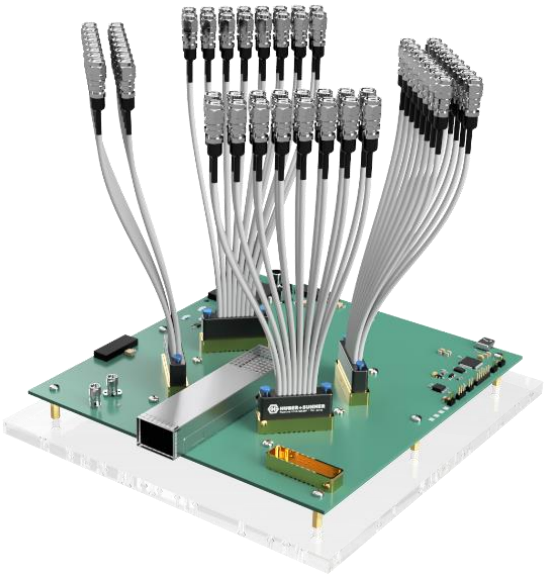


**OSFP-XD Host Compliance Board**

**ML4064-XD-HCB1-112**

**ML4064-XD-HCB2-112**

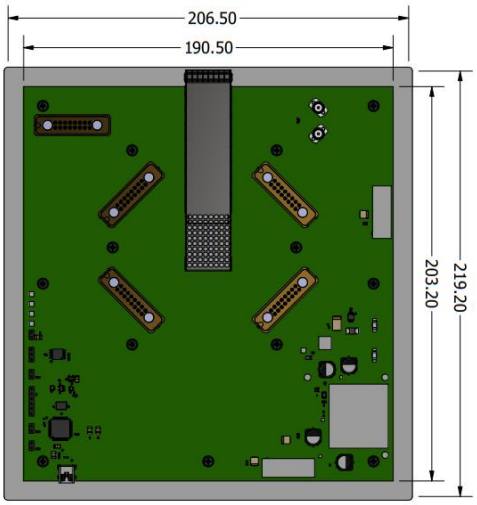
# ML4064-XD-MCB-112-MXPM70



**OSFP-XD-MXPM70 MCB includes:**

- MCB loss including the 3” MXPM70 cable is compliant with CEI-56G-VSR-NRZ and IEEE 802.3ck.
- CMIS GUI providing comprehensive approach to DUT interoperability, allowing users to access full CMIS implementation in modules. APIs available.
- I2C master driven from both on board microcontroller and/or external pin headers
- On-board LEDs display MSA output alarm states
- On-board buttons/jumpers for MSA input control signals

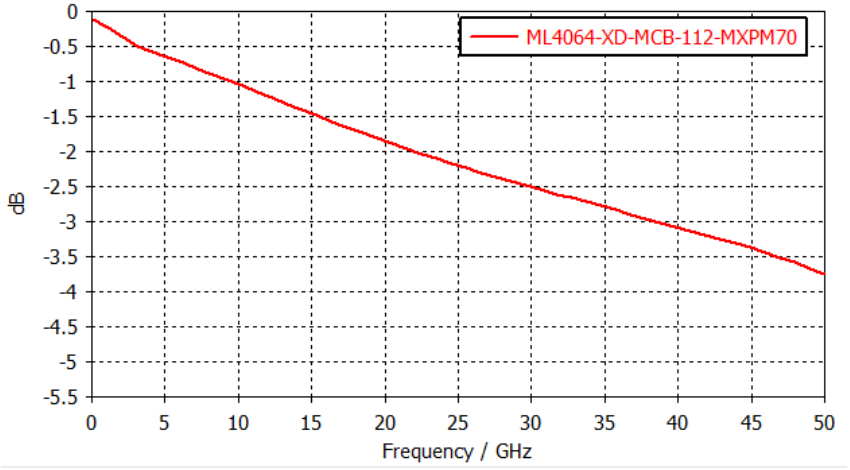
**Mechanical Dimensions:**




*Dimensions are in millimeters.*

**SI Details:**

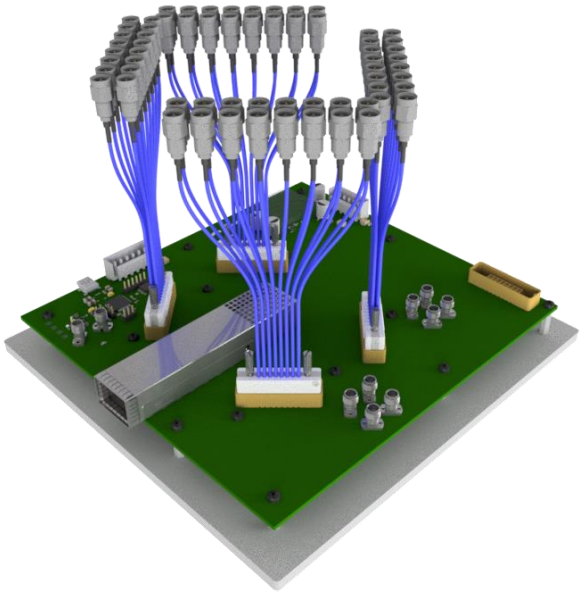
- The graph shows the loss of the MCB from OSFP-XD host connector, including PCB trace and MXPM70 connector to the 1.85mm connector on the end of the 3’’ cable.
- The MCB loss with a 3” MXPM70 cable is compliant with CEI-56G-VSR-NRZ and IEEE 802.3ck.




**Insertion Loss of MCB trace + 3’’ cable is 2.25 dB @ 25 GHz**

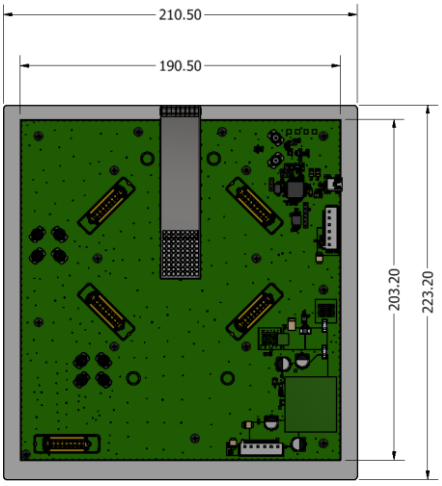
# ML4064-XD-MCB-112-SMPS

**OSFP-XD-SMPS MCB includes:**



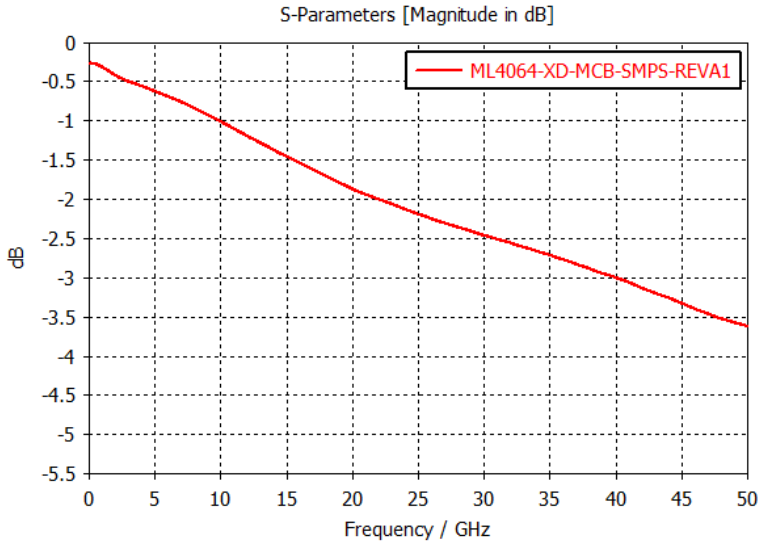
- MCB loss including the 3” SMPS cable is compliant with CEI-56G-VSR-NRZ and IEEE 802.3ck.
- High performance SMPS connectors up to 110GHz
- 92 Ohms trace impedance
- CMIS GUI providing comprehensive approach to DUT interoperability, allowing users to access full CMIS implementation in modules. APIs available.
- I2C master driven from both on board microcontroller and/or external pin headers
- On-board LEDs display MSA output alarm states
- On-board buttons/jumpers for MSA input control signals

**Mechanical Dimensions:**



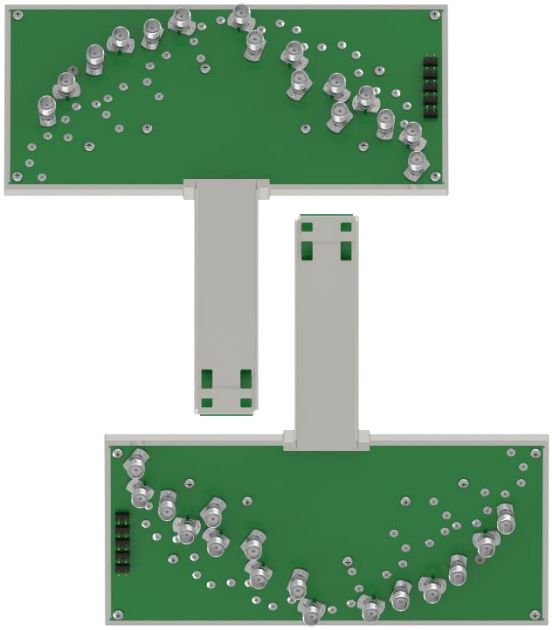

**SI Details:**

- The graph shows the loss of the MCB from OSFP-XD host connector, including PCB trace and SMPS connector to the 1.85mm connector on the end of the 3’’ cable.
- The MCB loss with a 3” SMPS cable is compliant with CEI-56G-VSR-NRZ and IEEE 802.3ck.



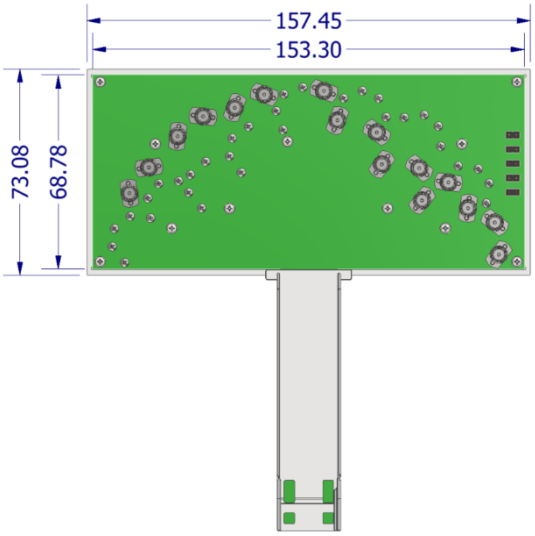

**Insertion Loss of MCB trace + 3’’ cable is 2.25 dB @ 25 GHz**

**OSFP-XD HCB:**



- OSFP-XD MSA Form Factor
- Compliant with IEEE802.3ck and CEI-56G-VSR-NRZ
- Built with high performance PCB Material
- High performance signal integrity traces
- Same low Insertion Loss for all channels
- HCB1 supports 8x112G TX and RX lanes
- HCB2 supports 8x112G TX and RX lanes
- High speed signals accessible through 2.4-mm or 1.85-mm connectors

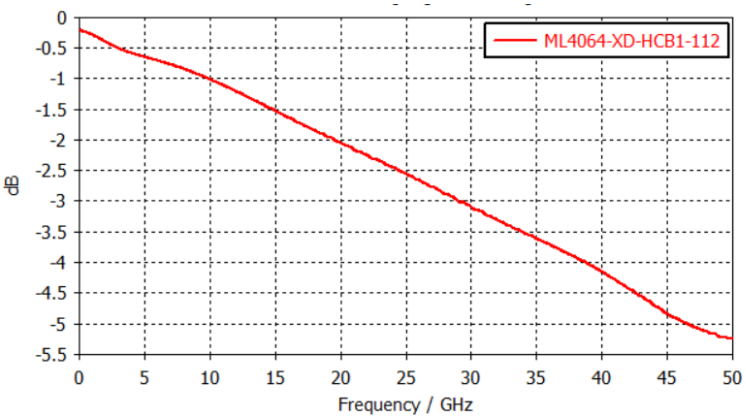
**Mechanical Dimensions:**

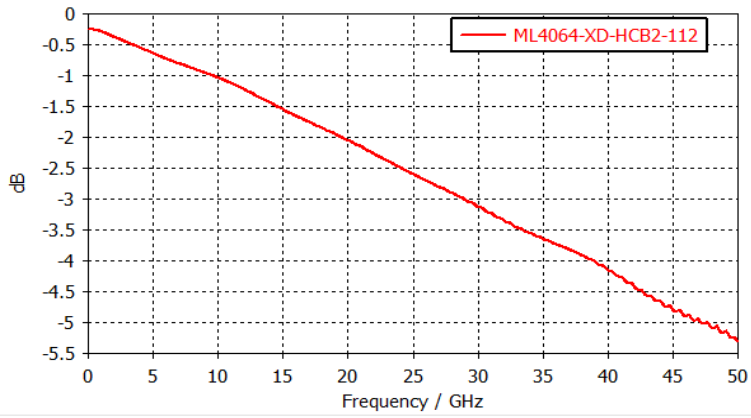


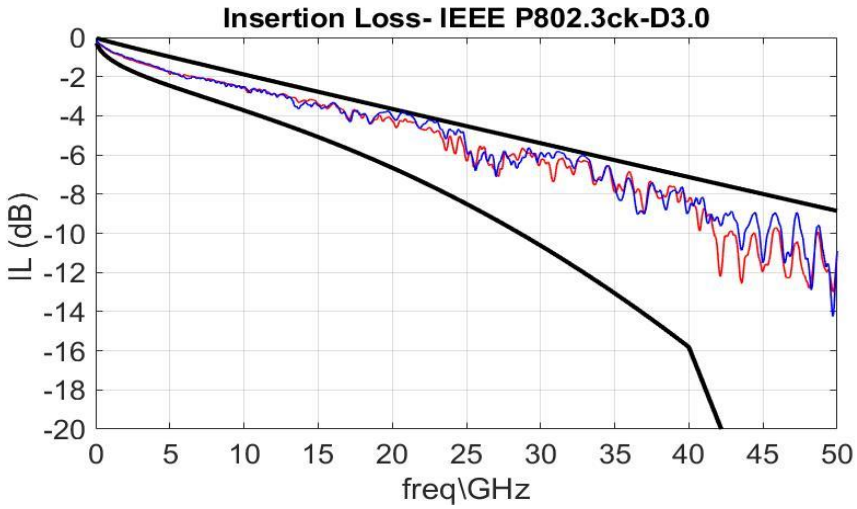

*Dimensions are in millimeters.*

**SI Details:**

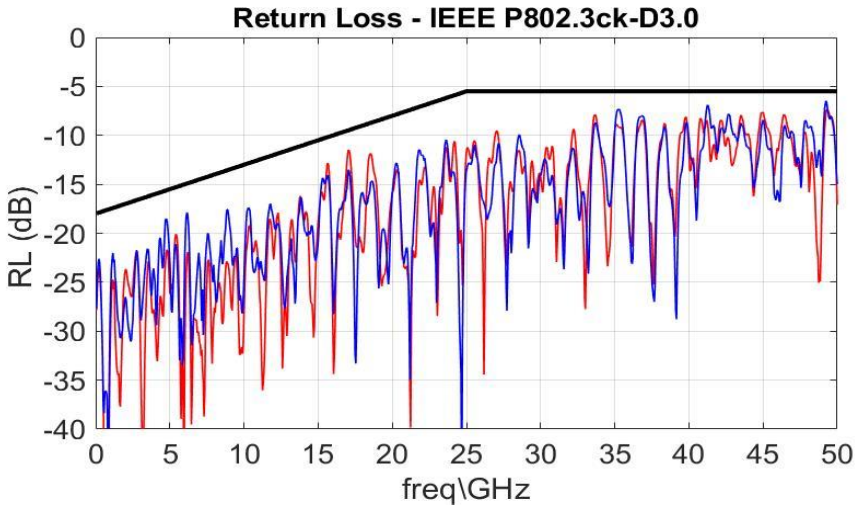
- The HCB1 and HCB2 loss is compliant with CEI-56G-VSR-NRZ and IEEE 802.3ck.






*Measured data of mated pair ML4064-XD-HCB1/2-112 with ML4064-XD-MCB-112-MXPM70*



| Part Numbers | Description |
|---|---|
| ML4064-XD-MCB-112-MXPM70 | 4 Huber+Suhner MXPM70 connectors<br>Cable: 2x8 Huber Suhner MXPM70 Cable Assembly. |
| ML4064-XD-MCB-112-SMPS18F | OSFP-XD MCB with 4x 2x8SMPS cable assembly, 3-inch length, 1.85mm Female Connector 92-ohm impedance. |
| ML4064-XD-MCB-112-SMPS18M | OSFP-XD MCB with 4x 2x8SMPS cable assembly, 3-inch length, 1.85mm Male Connector 92-ohm impedance |
| ML4064-XD-MCB-112-SMPS | OSFP-XD MCB, SMPS cables are not included |
| ML4064-XD-HCB1/2-112 | 2.4- or 1.85-mm connectors<br>HCB1: CH1-CH8<br>HCB2: CH9-CH16 |