

Innovation for the next generation



ML4062-MCB-112-MXPM70

QSFP-DD800 Module Compliance Board

Summary

As 400G claims more and more of the data center market share, the industry is already planning for still greater speeds in 800G. Increased speeds bring with them new form factors, of which QSFP-DD800 has emerged as a leading standard to drive the development of 800G interconnectivity. The ML4062-MCB-112-MXPM70 includes MXPM70 cables which can be fully de-embedded for optimal flexibility in conducting compliance measurements.

The datasheet is a quick overview of the QSFP-DD800 module compliance board (MCB) which enables the testing of system host ports. It is able to access high-speed host lanes via RF connectors. It can also access and trigger low-speed control signals, all while complying with IEEE/OIF Specifications.

QSFP-DD800 

ML4062-MCB-112-MXPM70

Key Features

- De-embedding MXPM70 cables
- Low insertion loss deviation, low crosstalk
- Supports 8x112G interfaces
- Compliant with IEEE 802.3ck
- I2C master driven from both on board microcontroller or external pin headers
- Current sensor
- Matched differential trace length for all 8 channels
- High performance signal integrity traces from MXPM70 connectors to QSFP-DD host connector.
- On-board LEDs display MSA output alarm states
- Built with high performance PCB material
- On-board buttons/jumpers for MSA input control signals
- User friendly GUI for I2C R/W commands and loading custom MSA memory maps
- Command Data Block (CDB) option enabled with a purchasable license key.
 - Advanced feature for accelerated module diagnostic functionality
- Four corner testing capability
- USB interface

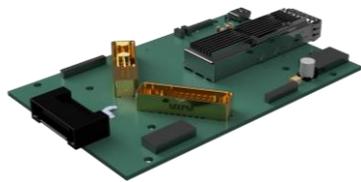


Figure 1: ML4062-MCB-112-MXPM70

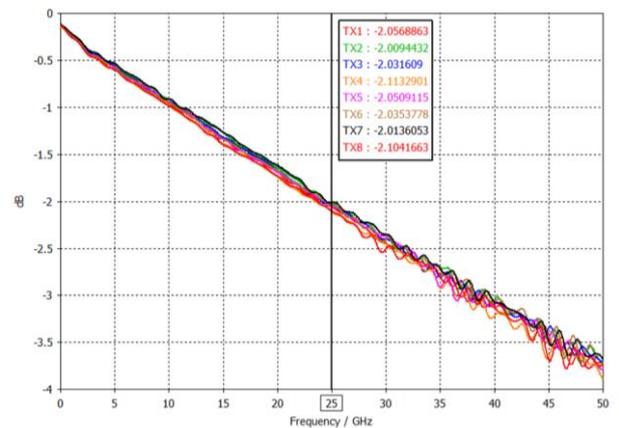


Figure 2: ML4062-MCB-112-MXPM70
Insertion Loss on TX

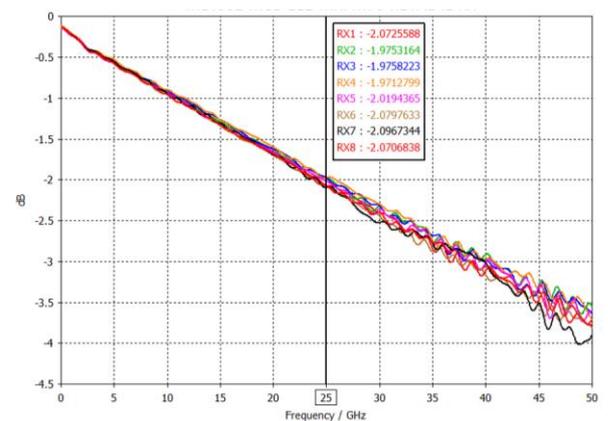


Figure 3: ML4062-MCB-112-MXPM70
Insertion Loss on RX

Ordering Information

Interconnects	Description
ML4062-MCB-112-MXPM70	QSFP-DD800 MCB MXPM70 connector

Recommended Accessories

Interconnects	Recommended <i>Phase matched cable pairs</i>	Alternative <i>Phase matched cable sets</i>	Comments
ML4062-MCB-112-MXPM70	2x MF53/2x8A_11MXPM/11PC185/152	NA	Sold separately by Huber+Suhner

North America

48521 Warm Springs Blvd.
Suite 310
Fremont, CA 94539, USA
+1 510 573 6388

Worldwide

Houmal Technology Park
Askarieh Main Road
Houmal, Lebanon
+961 81 794 455

Asia

7th Floor-2, No. 156
Sec. 2, Dongda Road, North District,
Hsinchu City 300, Taiwan (R.O.C.)
+886 3 5744 591

UAE

Building 4WA, Office 420
Dubai Airport Freezone Authority,
Dubai, UAE
+971 4 548 7 547