CFP2-DCO

(8x32G) Interconnects

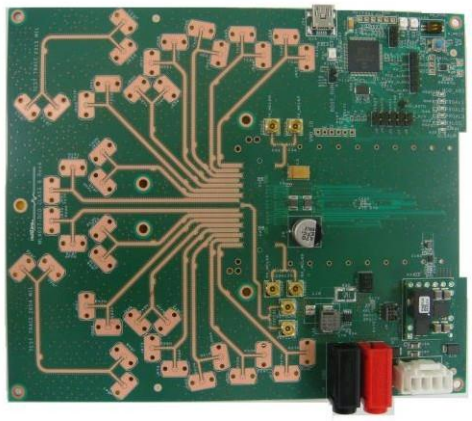
Superior Integrity and Performance

Complete CFP2-DCO Development Kit

ML4027-DCO Module Compliance Board
ML4028-DCO Host Compliance Board
ML4030-DCO Passive Loopback Module

ML4027-DCO

CFP2-DCO Module Compliance Board MCB



Summary

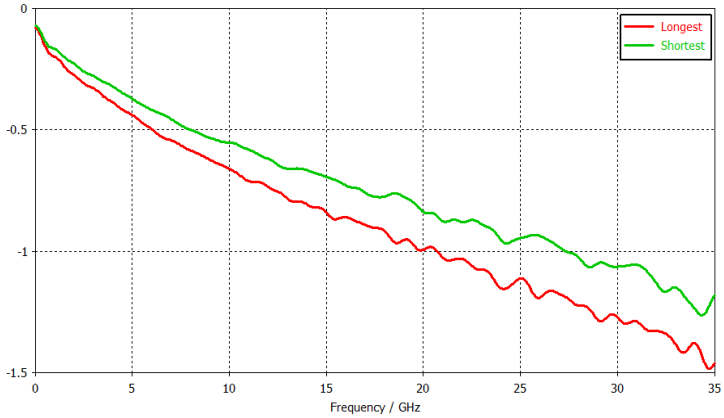
CFP2-DCO MSA Compliant Host board **ML4027-DCO**, is designed to provide an efficient and easy method of programming and testing CFP2-DCO transceivers.

The **ML4027-DCO** comes complete with Window's based software and user manual to enable intuitive memory map programming and testing, controlled via mini B USB.

The **ML4027-DCO** host is designed to simulate an ideal environment for CFP2-DCO transceivers module and cable testing, characterization and manufacturing tests. Its properties make the host board as electrically transparent as possible, allowing for a more accurate assessment of the module's performance.

Key Features

- High Performance signal integrity traces
- CFP2-DCO MSA Form Factor
- Low Insertion Loss Rogers 3003 based material
- Supports 8x32G TX & RX Lanes
  High speed signals accessible through 40 GHz K right angle.
- Longest trace length 2855 mils
- Shortest trace length 2317 mils
- High Speed Traces are OSP plated
- MDIO signals are accessible via Pin headers
- Control/ Alarms accessible through GUI and Pin headers
- DUT Current Sense



ML4027-DCO Insertion Loss graphs

Applications

- 32G Electrical module testing and characterization
- High-speed data interface between an ASIC (SerDes) and the CFP2-DCO module

ML4028-DCO

CFP2-DCO Host Compliance Module

Summary

CFP2 Development Kit Break-Out Module **ML4028-DCO,** are designed to provide an efficient and easy method to test and characterize line cards with 8x32G CFP2-DCO ports.

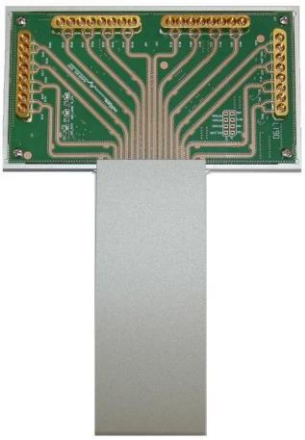
The **ML4028-DCO** simply plugs into a CFP2 slot and provides access to RX and TX ports through high performance signal integrity breakout path.

It comes with:

- 4 Huber Suhner MXP 1x8 coaxial PCB connectors (1x8A_81_MXP-S50-0-1/111_N)

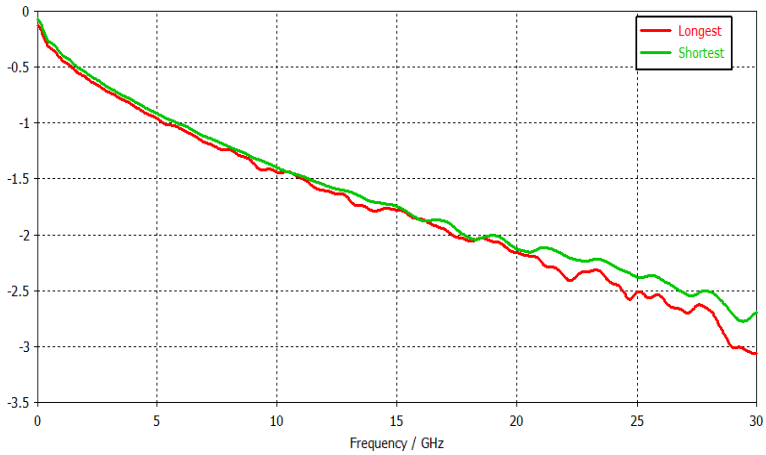
Or

- 4 ML 40GHz multi-SMPM-type A connectors



Key Features

- High Performance signal integrity traces
- CFP2 MSA Form Factor
- Low Insertion Loss Rogers 3003 based material
- LEDs show MOD_RSTn , MOD_LOPWR and TX_DIS signals status
- Supports 8x32G TX & RX Lanes
- High speed signals accessible through 4 Huber+Suhner MXP or MSMPM-type A Connector rows
- Longest trace length 6029 mils
- Shortest trace length 5575 mils
- OSP finish
- Control/ alarm signals accessible through Pin headers and LEDs
- Optional external MDIO, port address and global alarm trough pin header
- CFP2-DCO Line Card and Port Characterization



ML4028-DCO Insertion Loss graphs

Applications

- System Characterization
- Signal Integrity analysis

ML4030-DCO

CFP2-DCO Passive Loopback Module

Summary

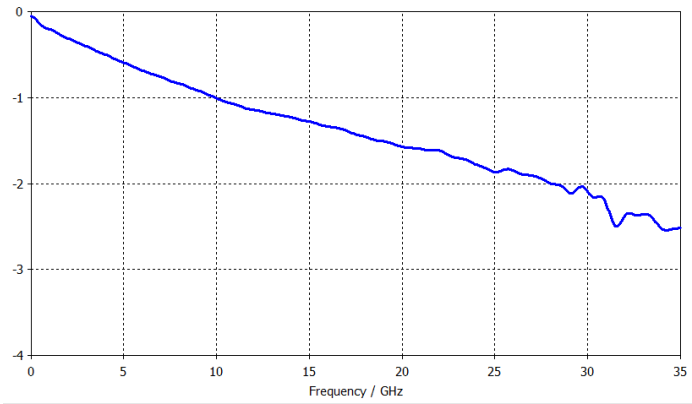
CFP2-DCO Passive Loopback Module **ML4030-DCO**, is designed to provide an efficient and easy method of characterizing and testing 8x32G CFP2-DCO ports.

The **ML4030-DCO** comes packaged in a MSA compliant shell housing offering excellent heat dissipation. It can be programmed to different power levels through an MDIO interface, thus emulating all CFP2-DCO power classes.

Transmit data from the host is electrically routed, (internal to the loopback module), to the receive data outputs and back to the host. It provides an economical way to exercise CFP2-DCO ports during R&D validation, production testing, and field testing.

Key Features

- Supports 8x32G
- CFP2-DCO MSA Form Factor
- MSA compliant MDIO slave
- Built with advanced PCB material
- Custom memory maps
- MSA compliant functionality
- Temperature Monitor and alarms warning
- Programmable Power dissipation up to 24 W
- Superior SI performance
- Matched trace length on all 8 lanes
- Trace length 2661 mils
- MDIO slave interface compliant with IEEE 802.3 Clause 45
- Programmable MSA memory pages
- RX_LOS-Alarm driven by TX_DIS control or MDIO register
- 3 status LED Indicator
- Insertions counter
- Hot Pluggable module
- Cutoff temperature preventing module overheating



ML4030-DCO Insertion Loss graph

Applications

- 8x32G Electrical module testing and characterization
- CFP2-DCO Port compliant testing

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