

QSFP-DD

HCB (Host Compliance Board) MCB (Module Compliance Board)

FEATURES

- Meets **IEEE 802.3ck, bs & cd Specifications**
- Meets **OIF CEI-112G-VSR-PAM4 CEI-56G-VSR-NRZ Specifications**
- **OSFP-DD MSA Compliant**

AVAILABLE CONFIGURATIONS

- **112G using 2.4mm RF Connectors**
- **112G using 1.85mm RF Connectors**

SYMBOL RATE

- **8x 56G NRZ**
- **8x 112G PAM4**

Included

- **Protective Case**

As our connected world demands higher bandwidth and increased data rates drive for innovation in both optical and electrical interconnects necessitate advanced test platforms.

Wilder Technologies has developed robust plug and receptacle test adapters to support QSFP-DD 800G host and device testing.

Wilder offers:

- HCB & MCB Test Adapters configured to support 50GHz testing (2.4mm RF connectors) or 70GHz testing (1.85mm RF connectors)
- Supports 56Gbaud, 112G PAM4 data rates over 8-channels.
- Low speed signal access via 14 position header
- User select power source via included power adapter or bench top power supply.
- Optional fan module to cool active devices up to 22W
- **Access to CMIS via Wilder CMIS GUI, included**
Read/Write access of low-speed i2c CMIS via USB port
DUT memory map loading and monitoring



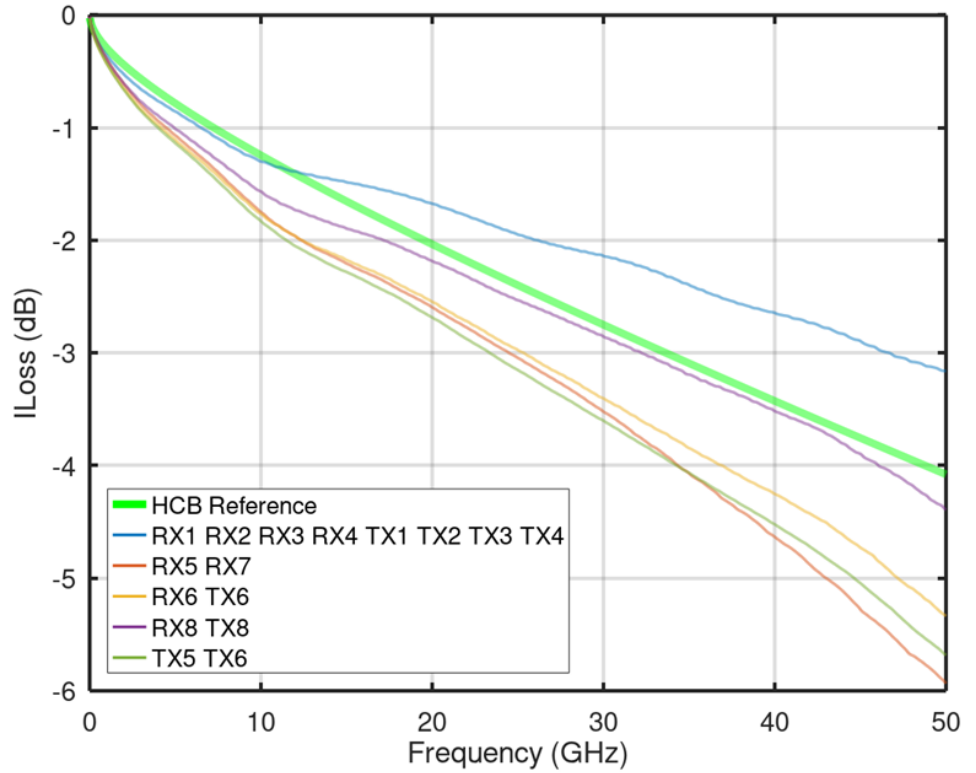
Individual Fixture Insertion Loss

Application

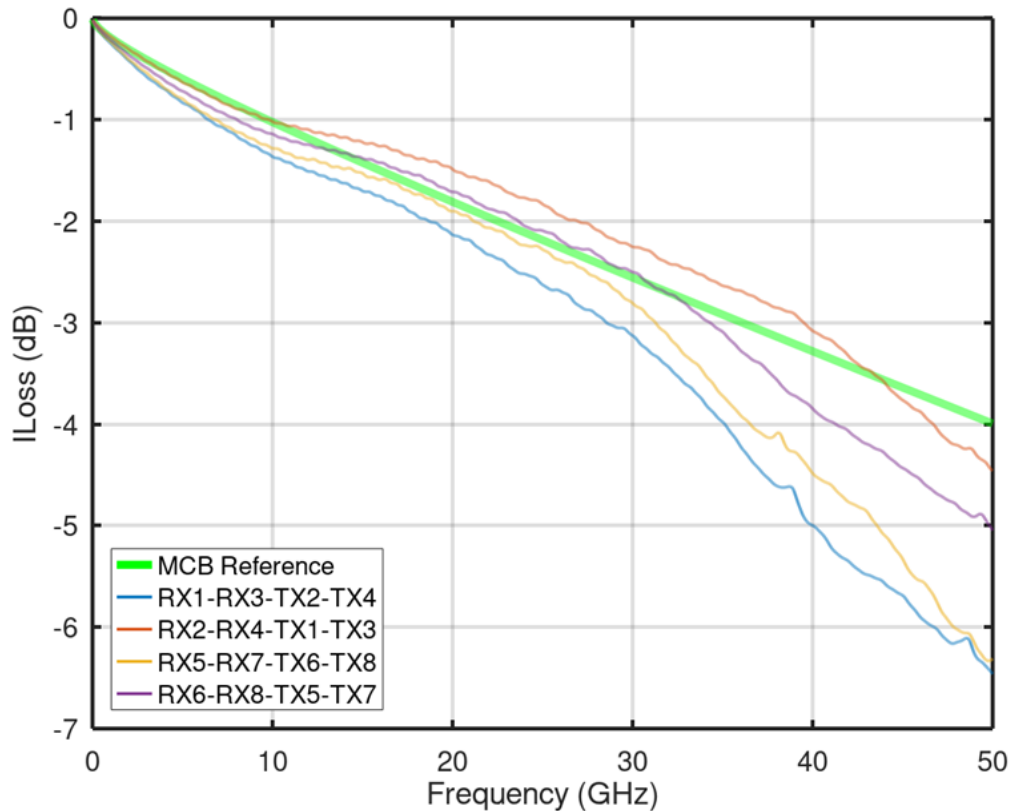
Testing of

- Transceiver Modules
- AOC's Active Optical Cables
- DAC's Direct Attach Cables
- AEC's Active Electrical Cables
- ACC's Active Copper Cables

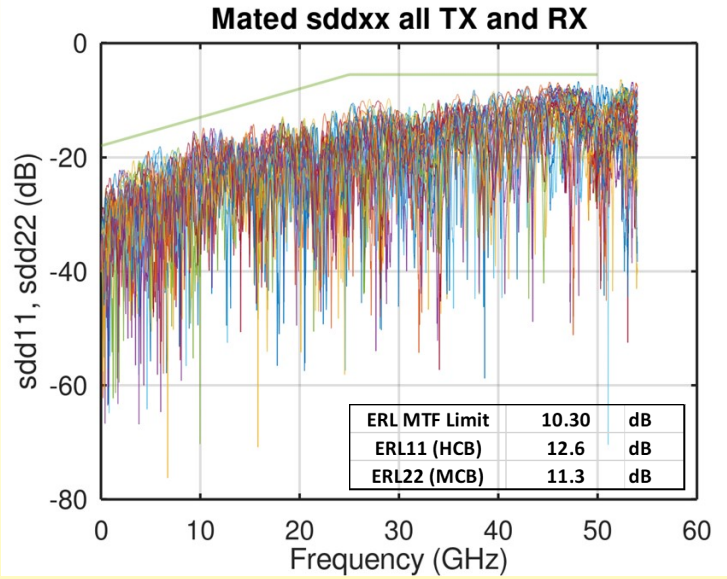
HCB Only ILoss HCB-only



MCB Only ILoss MCB-only



MTF Return Loss is shown for information only. ERL numbers represent worst case across 75 measured channels and is calculated with no gating.



Worst case FOM ild is plotted and typical results for all 16 channels are shown in this table. FOM ild is calculated using IEEE 802.3ck and CEI VSR parameters.

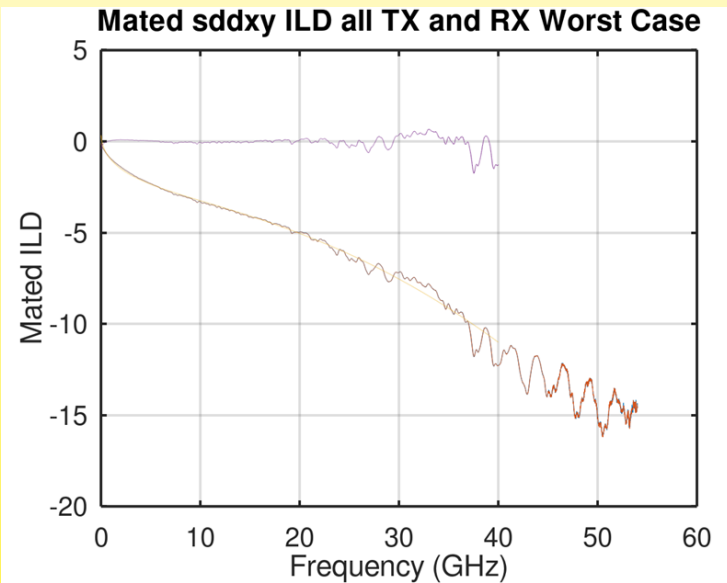
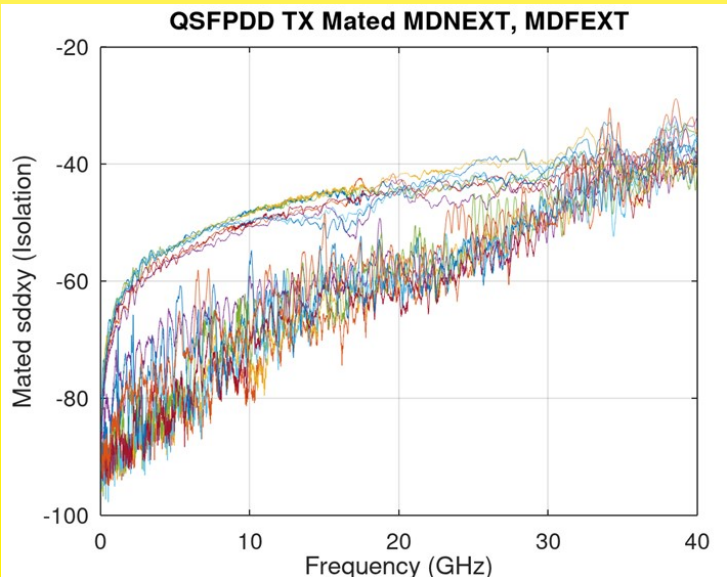


Table illustrates ICN data calculated as outlined in 802.3CK for the TX victim responses. Note that each row represents an ICN value as each aggressor is added to the power sum.



HC B Configurations

- Full 8-Tx & 8-Rx
- Legacy Row Only
- DD Row Only
- Both Row Tx
- Both Row Rx

2.4mm Available Fixtures

Wilder PN	Model	Description
640-0900-100	QSFDD-TPA2.4-MCB-R	MCB, 8-Channels, 5-inch 2.4mm Fem, 112G / 800G)
640-0901-100	QSFDD-TPA2.4-MCB-RC	MCB, 8-Channels, 5-inch 2.4mm Fem, 112G / 800G with Cooling Fan)
640-0899-101	QSFDD-TPA2.4-HCB-P	HCB, 8-Channels, 5-inch 2.4mm Fem, 112G / 800G
640-0899-111	QSFDD-TPA2.4-HCB-LGCY-P	HCB, 4-LGCY-Channels, 5-inch 2.4mm Fem, 112G / 800G
640-0899-121	QSFDD-TPA2.4-HCB-DD-P	HCB, 4-DD-Channels, 5-inch 2.4mm Fem, 112G / 800G
640-0899-131	QSFDD-TPA2.4-HCB-RX-P	HCB, 4-RX-Channels, 5-inch 2.4mm Fem, 112G / 800G
640-0899-141	QSFDD-TPA2.4-HCB-TX-P	HCB, 4-TX-Channels, 5-inch 2.4mm Fem, 112G / 800G

1.85mm Available Fixtures

Wilder PN	Model	Description
640-0900-200	QSFDD-TPA1.85-MCB-R	MCB, 8-Channels, 5-inch 1.85mm Fem, 112G / 800G)
640-0901-200	QSFDD-TPA1.85-MCB-RC	MCB, 8-Channels, 5-inch 1.85mm Fem, 112G / 800G with Cooling
640-0899-201	QSFDD-TPA1.85-HCB-P	HCB, 8-Channels, 5-inch 1.85mm Fem, 112G / 800G
640-0899-211	QSFDD-TPA1.85-HCB-LGCY-P	HCB, 4-LGCY-Channels, 5-inch 1.85mm Fem, 112G / 800G
640-0899-221	QSFDD-TPA1.85-HCB-DD-P	HCB, 4-DD-Channels, 5-inch 1.85mm Fem, 112G / 800G
640-0899-231	QSFDD-TPA1.85-HCB-RX-P	HCB, 4-RX-Channels, 5-inch 1.85mm Fem, 112G / 800G
640-0899-241	QSFDD-TPA1.85-HCB-TX-P	HCB, 4-TX-Channels, 5-inch 1.85mm Fem, 112G / 800G

Recommended Accessories

Wilder PN	Model	Description
640-1010-000	QSFPDD-MCB-FAN-MOD	QSFPDD COOLING FAN MODULE ACCESSORY
415-0128-002	INST-CBL-1.85M-1.85M-300-1PR	Cable Set, Instrument, Matched-Pair 1.85mm Male to 1.85mm Male, 300mm
415-0128-102	INST-CBL-1.85M-1.85M-600-1PR	Cable Set, Instrument, Matched-Pair 1.85mm Male to 1.85mm Male, 600mm
415-0128-202	INST-CBL-1.85M-1.85M-900-1PR	Cable Set, Instrument, Matched-Pair 1.85mm Male to 1.85mm Male, 900mm



WILDER TECHNOLOGIES PRODUCT LIST

Look to Wilder Technologies for your interconnect validation, compliance and certification requirements.

"It's all about integrity"

A Global Leader — Providing evaluation and test vehicles for today's and tomorrow's interconnect technology.

Signal Integrity — High Speed, Low Noise, Ultra-low Insertion and Return Loss.

See what's being tested not the test equipment.

Optimized Signal Path — We provide the cleanest possible conduit to provide you with the cleanest possible signal.

For more product details, visit www.wilder-tech.com



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