Introduction:



Fig1: USB3.0 CTS Type B receptacle Test Fixture(USB3-BR03AM)

LiTek's USB3.0 CTS Type B receptacle Test fixture (USB3-BR03AR) can be used to measure the Device with USB3.0 Protocol Signal Generator or Real-Time Scope after connect USB3.0 Type A to Type B cable assembly. It can also be used to measure USB3.0 Type B plug connectors with suitable test settings.



Fig2: USB3-BR03AM plugged into Host Device after Type B to Type A cable assembly

For Host Device testing, we can use a determined USB3.0 cable assembly, then connecting to USB3-BR03AM. SSRX in the test fixture can be connected to real-time scope. SSTX in the test fixture can be connected to Signal generator or protocol generator.



Fig3: USB3-BR03AM plugged with Type B Plug DUT.

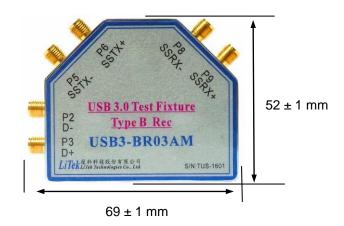
For USB3.0 CTS Type B plug connector testing. We can soldered DUT on the reference board or terminated in the far end and connected with USB3-BR03AM for Impedance and NEXT testing. LiTek Also apply the reference board for standard Type B Plug in option.

In some case, we may change the Type B
Receptacle for user purpose. Customers can apply
their considered type B receptacle to do the
USB3-BRXXX as the other test fixtures.

Features:

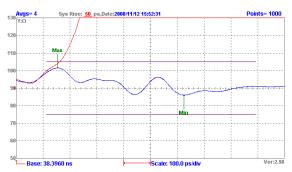
- 1. Good Impedance match: $100 \Omega + 5 \Omega$.
- 2. Short Trace Length: meet USB3.0 spec.
- 3. Fast Rise Time: Less than 50 ps.
- 4. Low Intra pair skew: +/- 2ps.
- 5. Low Loss design: Less than 3 dB @5GHz.
- 6. Signal Pairs: SSRX/ SSTX and USB D+/D-.
- 7. 6 SMA connectors and Type B receptacle.

Fig4: USB3-BR03AM dimensions

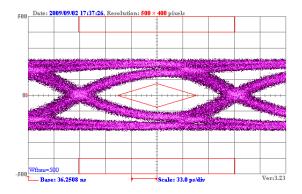


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USB3.0 Mated impedance



USB3.0 Eye diagram with 2M Cable



Related LiTek Products:

Customer own USB3-BR03AM may also buy:

- → USB3-AP01A: USB3.0 Type A plug test fixture.
- → USB3-BP01A: USB3.0 Type B Plug test fixture.
- ightarrow USB3-AR03AM: USB3.0 Type B receptacle test fixture.
- ightarrow USB3-MP01A: USB3.0 Type Micro A/B plug test fixture.
- → USB3-MR03AM: USB3.0 Type Micro A/B receptacle test fixture.
- → USB3-CK03BM: USB3.0 2X trace TRL Calibration Kit.
- → TpNA for USB3.0 Software.

Application and Reference:

USB3-BR03AR can be used to these listed as below:

- → USB3.0 Host Devices.
- → USB3.0 HUB with Type B receptacle connectors.
- → Others with Type B plug connectors.
- → Measurements for USB3.0 Type B plugs.
- → Measurements for USB3.0 Cable with TypeB plug side connector.

USB3.0 Measurement Related websites:

→ USB Org: http://www.usb.org

→ Agilent: http://www.agilent.com

→ Tektronix: http://www.tektronix.com

→ LiTeK: http://www.litektw.com

Contact LiTek:

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