USB3.0 CTS Type A Receptacle Test Fixture (USB3-AR03AM) Version 1.0

Introduction:



Fig1: USB3.0 CTS Type A receptacle Test Fixture(USB3-AR03AM)

LiTek's USB3.0 CTS Type A receptacle Test fixture (USB3-AR03AM) can be used to measure the Host Device with USB3.0 Protocol Signal Generator or Real-Time Scope after connect USB3.0 Type A to Type A cable assembly. It can also be used to measure USB3.0 Type A plug connectors with suitable test settings

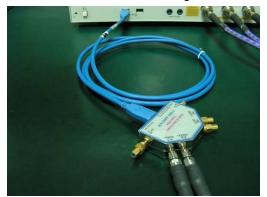


Fig2: USB3-AR03AM plugged into Host Device after Type A to Type A cable assembly

For Host Device testing, we can use a determined USB3.0 cable assembly, then connecting to USB3-AR03AM.



Fig3: USB3-AR03AM plugged with Type A Plug DUT.

For USB3.0 CTS Type A plug connector testing. We can soldered DUT on the reference board or terminated in the far end and connected with USB3-AR03AM for Impedance and NEXT testing. LiTek Also apply the reference board for standard Type A Plug in option.

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

Features:

7.

- 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-.
 - 6 SMA connectors and Type A receptalce.

Fig4: USB3-AR03AM dimensions



76± 1 mm

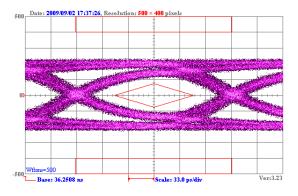
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USB3.0 Mated impedance

USB3.0 Eye diagram with 2M Cable



Related LiTek Products:

Customer own USB3-AR03AM may also buy:

- → USB3-AP01A: USB3.0 Type A plug test fixture.
- → USB3-BP01A: USB3.0 Type B Plug test fixture.
- \rightarrow USB3-BR03AM: USB3.0 Type B receptacle test fixture.
- → 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-AR03AM can be used to these listed as below:

- \rightarrow USB3.0 Host Devices.
- \rightarrow USB3.0 HUB with Type A receptacle connectors.
- \rightarrow Others with Type A plug connectors.
- \rightarrow Measurements for USB3.0 Type A plugs.

→ Measurements for USB3.0 Cable with Type A plug side connector.

USB3.0 Measurement Related websites:

- → USB Org: <u>http://www.usb.org</u>
- → Agilent: <u>http://www.agilent.com</u>
- → Tektronix: <u>http://www.tektronix.com</u>
- → LiTeK: <u>http://www.litektw.com</u>

Contact LiTek:

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