

## Introduction:



Fig1: Displayport Rec Test Fixture (DP-01ARM)

LiTek's **DP-01ARM** is a good Rec-end test fixture for Display-Port Source and Sink signal quality and protocol testing. Not only 4 Lane pairs, Aux Channel, but also all low frequencies signal pins had been extended to the SMA connectors.



Fig2: Display-port Rec Test Fixture plugged With Display-port Cable.



Fig3: DP Test Fixture Set.

Litek Technologies DisplayPort cable test solution provides you with a fast and easy way to verify your DisplayPort cable to meet DisplayPort Compliance Test Specification. This solution integrates both precision test fixture and TpNA software tested with Network Analyzer (NA) and Time Domain Reflectometry (TDR) and let engineers see the interaction between time and frequency domain.

## Application:

→Cable Assembly

## Features:

1. Good Impedance match:100Ω +/- 3Ω
2. Short Trace Length: meet Displayport spec.
3. Fast Rise Time: Less than 50 ps.
4. Low Intra pair skew: +/- 2ps
5. Low Loss design: Less than 3 dB @7GHz

Fig4: DP-01ARM dimensions

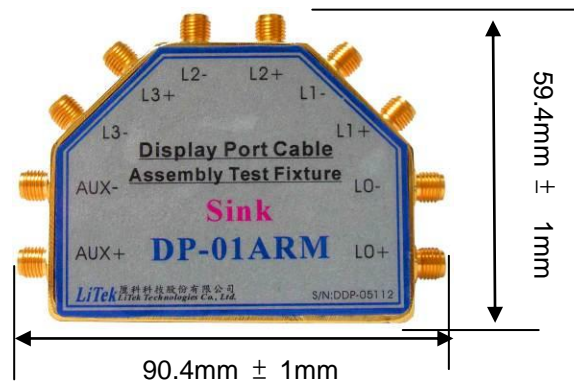
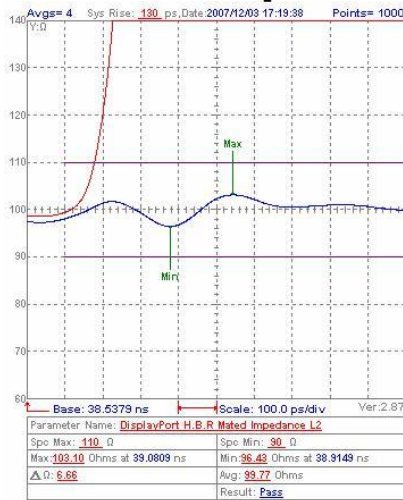


Table1: Source-Side conn Pin Assignments

P01	L0(p)	P02	L0 GND
P03	L0(n)	P04	L1(p)
P05	L1 GND	P06	L1(n)
P07	L2(p)	P08	L2 GND
P09	L2(n)	P10	L3(p)
P11	L3 GND	P12	L3(n)
P13	GND	P14	GND
P15	AUX(p)	P16	AUX GND
P17	AUX(n)	P18	HPD
P19	Return	P20	Power

## Connector Impedance



## Insertion Loss



## Related LiTek Products:

Customer own DP-01ARM may also buy:

- MDP-01ARM: Mini Displayport REC Test Fixture.
- MDP-01APM: Mini Displayport Plug Test Fixture
- MDP-02ARM: Mini Displayport REC 15G Test Fixture.
- MDP-02CKM: Mini Displayport TRL 15G Test Fixture.
- MDP-02APM : Mini Displayport Plug 15G Test Fixture.
- DP-01CKM : Displayport Calibration Kit.
- DPA-12 : Displayport Probe Test Fixture.
- TpNA for Displayport Software.

## Application:

DP-01ARM can be used to these listed below:

- DP Devices.
- Measurements for DP Cable with plug side connector.

## Reference:

- VESA <http://www.VESA.org>
- Tektronix <http://www.tek.com>
- DisplayPort <http://www.displayport.org>

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