

Introduction:



Fig1: Mini Displayport Plug 15G Test Fixture (MDP-02APM)

LiTek's **MDP-02APM** is a good Plug-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 and the 2.54-mm pitch connector.



Fig3: MDP Test Fixture Set.

The power may be required from the attached test fixture when testing an MDP Source. The LiTek's MDP-02APM can provide power to the source-under test by pin 20 marked on the fixture.

Application:

- Mother Board
- Laptop PC
- TV
- Cable Assembly



Fig2: Mini Display-port Plug Test Fixture plugged into Mini Display-port receptacle NB

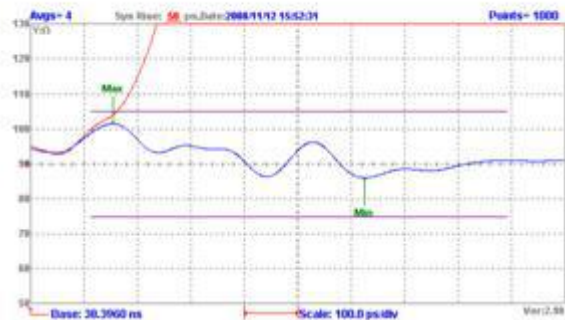
Features:

1. Good Impedance match: $100\Omega \pm 5\Omega$
2. Short Trace Length: meet Displayport spec.
3. Fast Rise Time: Less than 50 ps.
4. Low Intra pair skew: $\pm 2ps$
5. Low Loss design: Less than 3 dB @15GHz

Table1: Mini DP Plug Test Fixture Pin Assignments

P01	GND	P02	HPD
P03	L0 (p)	P04	CONFIG1
P05	L0 (n)	P06	CONFIG2
P07	GND	P08	GND
P09	L1 (p)	P10	L3 (p)
P11	L1 (n)	P12	L3 (n)
P13	GND	P14	GND
P15	L2 (p)	P16	AUX (p)
P17	L2 (n)	P18	AUX (n)
P19	RETURN	P20	POWER

MHL Mated impedance



MDP Eye diagram with 2M Cable

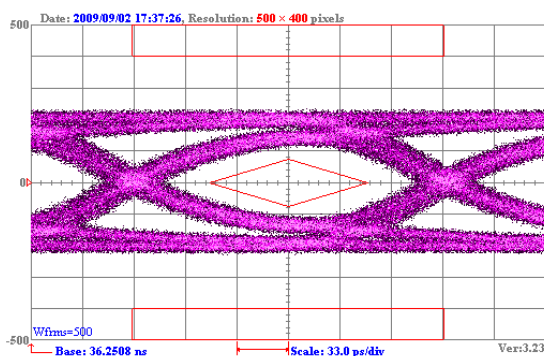
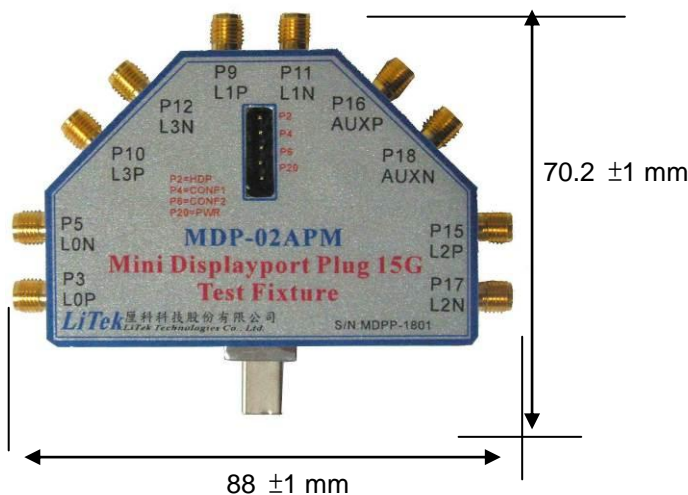


Fig4: MDP-02APM dimensions



Related LiTek Products:

Customer own MDP-02APM 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.
- DP-01ARM : Displayport REC Test Fixture.
- DP-01ckM : Displayport Calibration Kit.
- DPA-12 : Displayport Probe Test Fixture.
- TpNA for MHL Software.

Application and Reference:

MDP-02APM can be used to these listed below:

- MDP Devices.
- Measurements for MDP Cable with Type A plug side connector.
- Thunderbolt Interface.

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