

# **LiTek**

# **Technology**

## DAP-34A (DVI Active Probe Test Fixture[Jig]) Datasheet

**V0.9**

**2010/12/3**

## Datasheet of DAP-34A (DVI Active Probe Test Fixture Set)

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### TABLE OF CONTENTS

REVISION HISTORY.....	3
INTRODUCTION .....	4
FEATURES .....	5

## Datasheet of DAP-34A (DVI Active Probe Test Fixture Set)

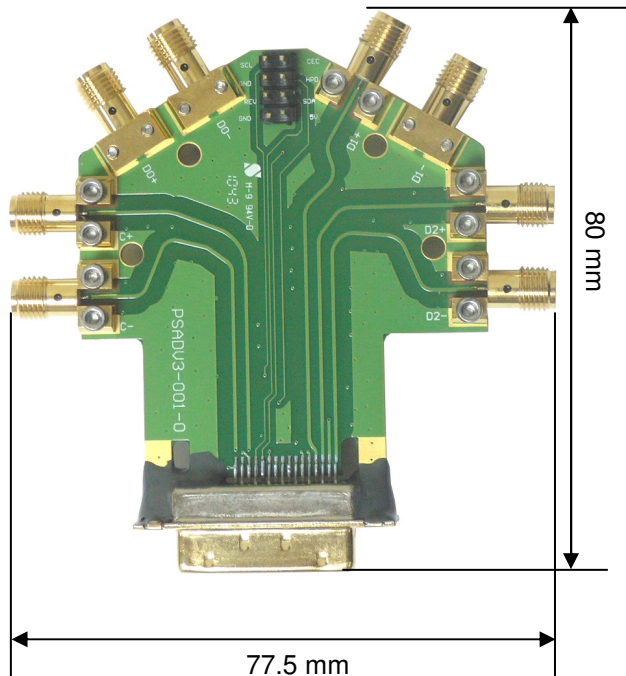
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### Revision History

Revision	Author	Date	Comment
V0.9	Tom Yeh, Leo Lee	2010/12/03	Initial draft

## Datasheet of DAP-34A (DVI Active Probe Test Fixture Set)

### Introduction:

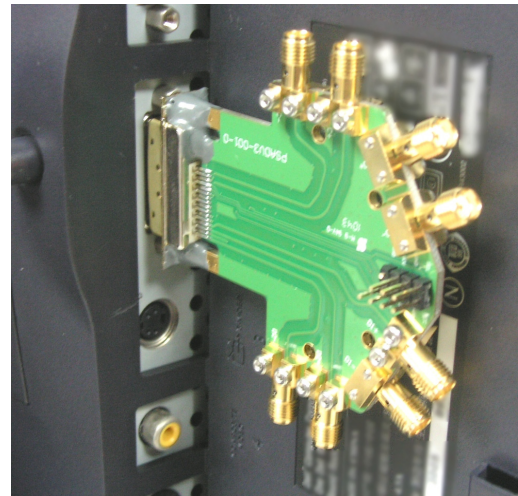


**Fig 1: DAP-34A DVI Active Probe Test Fixture**

TMDS is the most popular interface between PC and Display. DVI is the first application for this. In this reason, there are many devices with DVI connectors mounted in the TMDS channels.

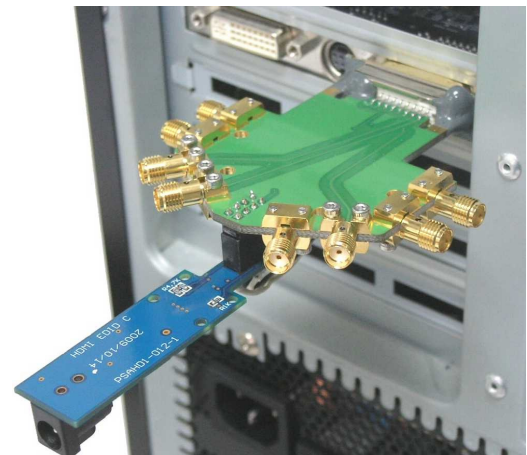
LiTek's DAP-34A is DVI plug side test fixture, used to test both source and sink devices. There are 8 SMA connectors in the fixture, would be connected to Scope or Signal Generators. CLK, D0, D1 and D2 pairs are defined and used inside. An option 8 pins connector is used to connect external PCB of EDID board.

Expect source and side devices measurements, DAP-34A can be also used to test DVI receptacle connectors. By a suitable design of Receptacle side PCB fixture, DAP-34A can then be used to plug into the test board. S-Parameters, Time Domain features of receptacle can be measured by this way.



**Fig 2: DAP-34A plugged into display**

For Display Test, DAP-34A can be plugged into Display DVI receptacle. Test pattern are applied by Signal Generator to DAP-34A.



**Fig 3: DAP-34A plugged into PC**

For PC Test, DAP-34A can be plugged into DVI Display card. User can use real time scope to watch the pattern. The EDID board (PSAHD1-012-1) should be connected on the DAP-34A in order to apply the EDID information. The HPD Pin are pulled high if the source applied with +5V on the +5V Pin.

## Datasheet of DAP-34A (DVI Active Probe Test Fixture Set)

### Features:

- >> Good impedance control: Differential mode 100 +/- 5 Ohms
- >> Support both Source and Sink test.
- >> Intra Pair Skew: Less than 5ps for each pair.
- >> Inter Pair Skew: Less than 10ps for all pairs.
- >> Low Loss: Less than -3dB @3.4GHz.

### Standard Package:

Product Name	Description	Q'ty
DAP-34A	DVI plug end test fixture	1 EA
PSAHD1-012-1	EDID Board	1 EA

### Warranty:

This set is sold with 1 year warranty. Shipment cost is not included.

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