



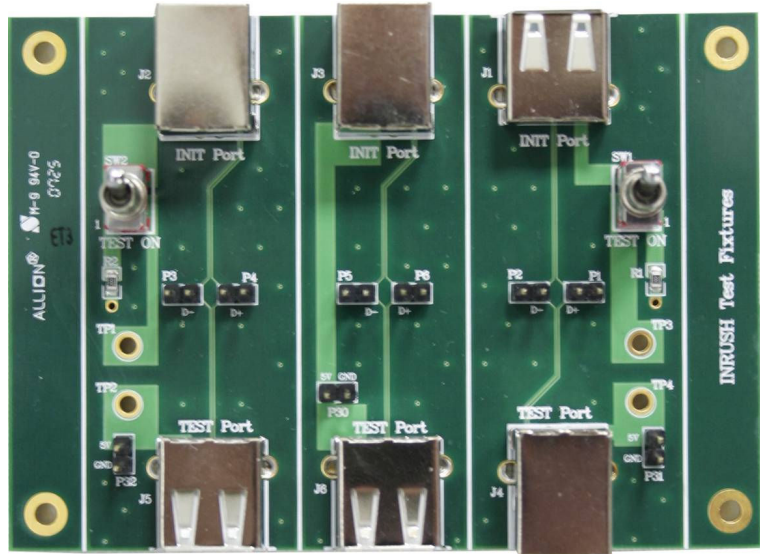
USB Compliance Pre-Test Fixtures

ALLION TEST LABS, INC.



USB Inrush (SQiDD) Test Fixture

Part No.: USB-TF-INR



Application

- Design for Full/ Low Speed Device and Host Signal Quality Test
- Design for Full/ Low Speed Device Inrush Test
- Related with “**USB-IF Full and Low Speed Electrical and Interoperability Compliance Test Procedure**” Revision 1.3 Section B.1
- SW1 and SW2 is for Inrush Test. You should keep them on “TEST ON” when doing Full/ Low Speed Signal Quality Test
- “INIT Port” is for link with Host, and “TEST Port” is for link with Device Under Test

Specification

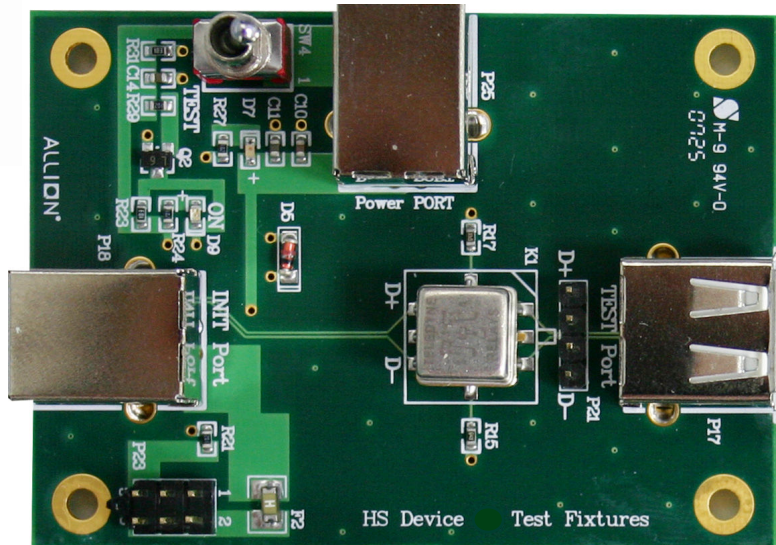
- 98mm x 70mm x 1.4mm
- Operating Temperature 0° ~ 55° C



USB HS Device

Electrical Test Fixture

Part No.: USB-TF-HS-EL



Application

- Design for High Speed Device Upstream Electrical Test (EL_21, 22, 25, 27, 28, 29, 31, 38, 39, 40 and 9)
- Related with “**USB-IF Device High-Speed Electrical Test Procedure**” Section 4.4
- Power Consumption: Normal Mode: 2mA Test Model: 88mA
- Can apply external power over USB cable from “Power Port”
- “INIT Port” is for link with Host, and “TEST Port” is for link with Device Under Test

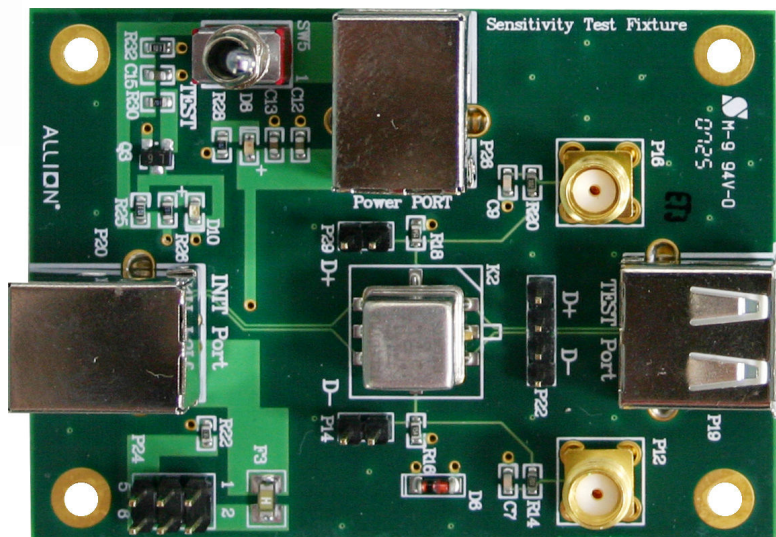
Specification

- 70mm x 50mm x 1.4mm
- Operating Temperature 0° ~ 55° C



USB HS Sensitivity Test Fixture

Part No.: USB-TF-HS-ST



Application

- Design for High Speed Device Sensitivity Test (EL_16, 17 and 18)
- Related with “**USB-IF Device High-Speed Electrical Test Procedure**” Section 4.9
- Power Consumption: Normal Mode: 2mA Test Model: 88mA
- Can apply external power over USB cable from “Power Port”
- “INIT Port” is for link with Host, and “TEST Port” is for link with Device Under Test

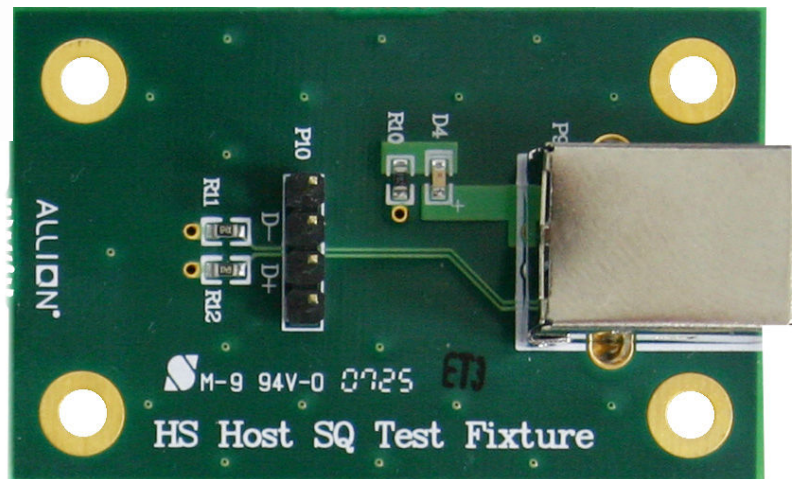
Specification

- 70mm x 50mm x 1.4mm
- Operating Temperature 0° ~ 55° C



USB HS Host SQ Test Fixture

Part No.:
USB-TF-HS-HOSQ



Application

- Design for High Speed System and HUB Downstream Signal Quality Test (EL_2, 3, 6 and 7)
- Related with “**USB-IF Host High-Speed Electrical Test Procedure**” Section 4.4

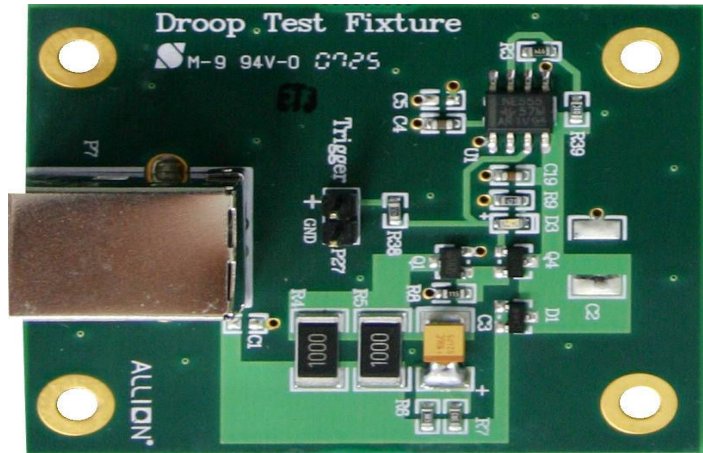
Specification

- 50mm x 32mm x 1.4mm
- Operating Temperature 0° ~ 55° C



USB Droop Test Fixture

Part No.: USB-TF-Droop



Application

- Design for System and HUB Drop Test
- Related with “**USB-IF Full and Low Speed Electrical and Interoperability Compliance Test Procedure**” Revision 1.3 Section B.2.3
- Please don't host Droop fixture with Hub or System over 5 minutes, resistance may become un-stable on high temperature
- Please don't touch resistance area to avoid scald

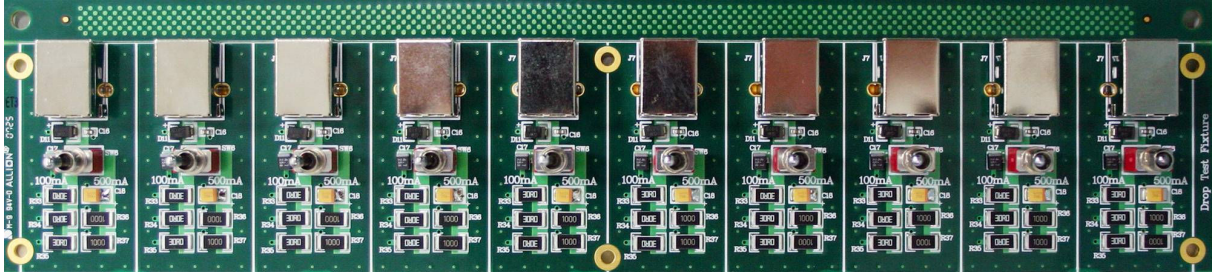
Specification

- 264mm x 50mm x 1.4mm
- Standard USB Type B connector
- Operating Temperature 0° ~ 70° C
- Support 100mA Loading with timer (Base 5V USB power source)



USB Drop Test Fixture

Part No.: USB-TF-Drop



Application

- Design for System and HUB Droop and Drop Test
- Related with “**USB-IF Full and Low Speed Electrical and Interoperability Compliance Test Procedure**” Revision 1.3 Section B.2.2
- Please don't 500mA loading on Bus-Powered Hub or System
- Please don't host Drop fixture with Hub or System over 5 minutes, resistance may become un-stable on high temperature
- Please don't touch resistance area to avoid scald

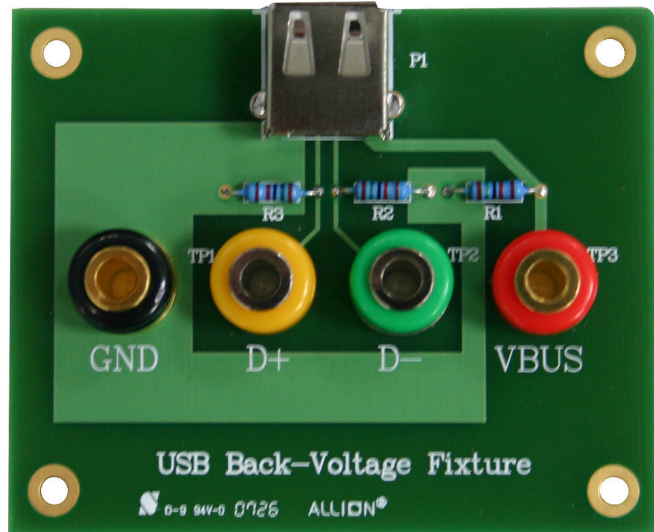
Specification

- 50mm x 42mm x 1.4mm
- Standard USB Type B connector
- Operating Temperature 0° ~ 70° C
- Support 100mA and 500mA loading



USB Back-Voltage Fixture

Part No.: USB-TF-BV



Application

- Design for Self-Powered Device Back-Voltage Test
- Related with “**USB-IF Full and Low Speed Electrical and Interoperability Compliance Test Procedure**” Revision 1.3 Section F

Specification

- 71mm x 58.5mm x 1.4mm
- Standard USB Type A connector
- 4mm Banana Jack
- Operating Temperature 0° ~ 55° C

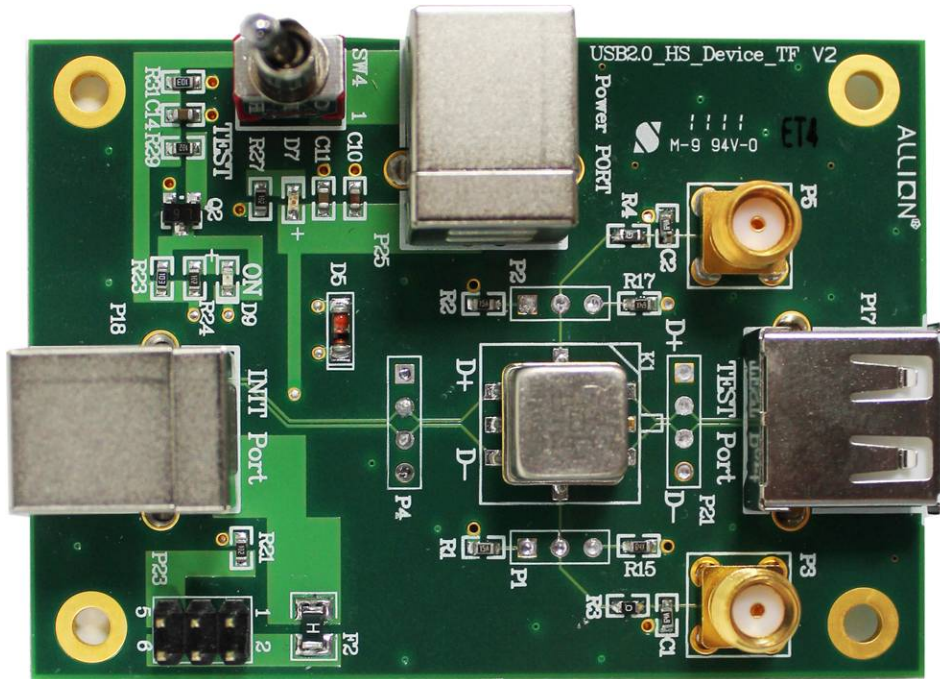
Contact Information:

Tel: +886-2-26557877 E-mail: service@allion.com

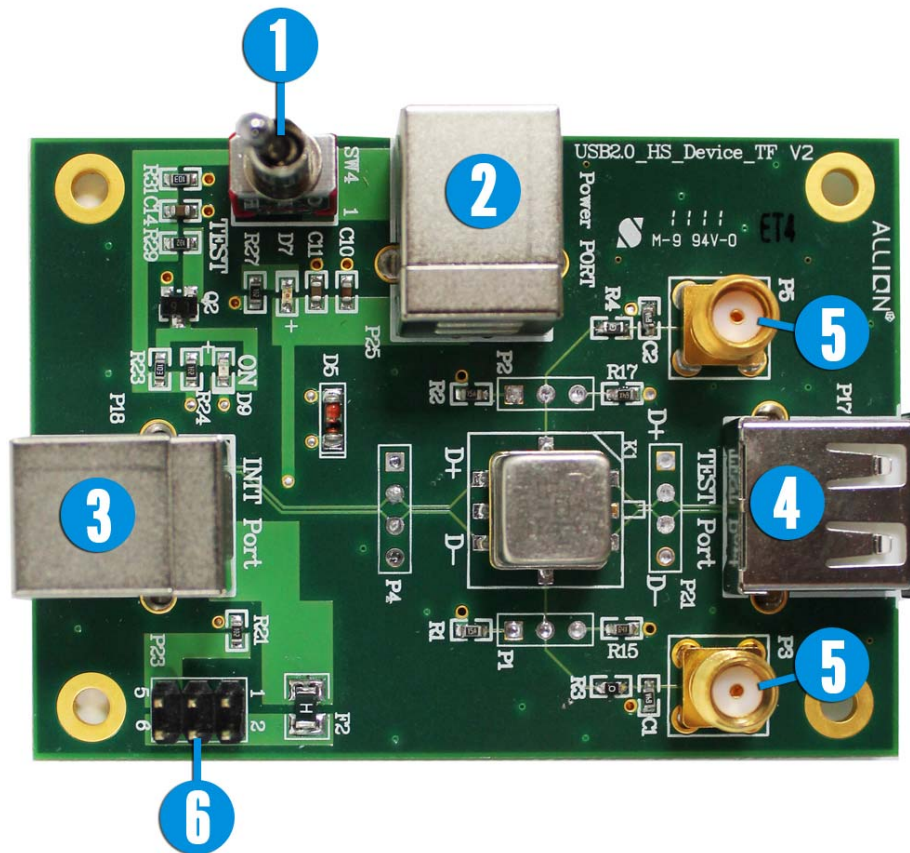
URL: http://www.allion.com/test_tool_usb.html

USB Compliance High Speed Signal Quality Test Fixtures USB-TF-HS-EP (Eye Pattern Test Only)

- **Specification**
 - 70mm x 50mm x 1.4mm
 - Operating Temperature 0° ~ 55° C
- **Layout**



- **Placement direction**



1. TEST side: when device enters test mode (Test_Packet), switch to Test side to get the proper waveform.
2. Connect to USB root port via USB cable to provide the external power for the fixture.
3. Connect to USB Host port via the USB cable for initial device.
4. Connect to device under test via the USB cable as short as possible.
5. Connect SMA cables (P5: D+, P3: D-) to scope for the High Speed Signal Quality Test.
6. Jump setting
 - a. Jump 1-2 is always short.
 - b. Jump 3-4 short is external power for test fixture.
 - c. Jump 5-6 short is for bus power for test fixture.

Contact Information

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Email: service@allion.com

URL: http://www.allion.com/test_tool_usb.html