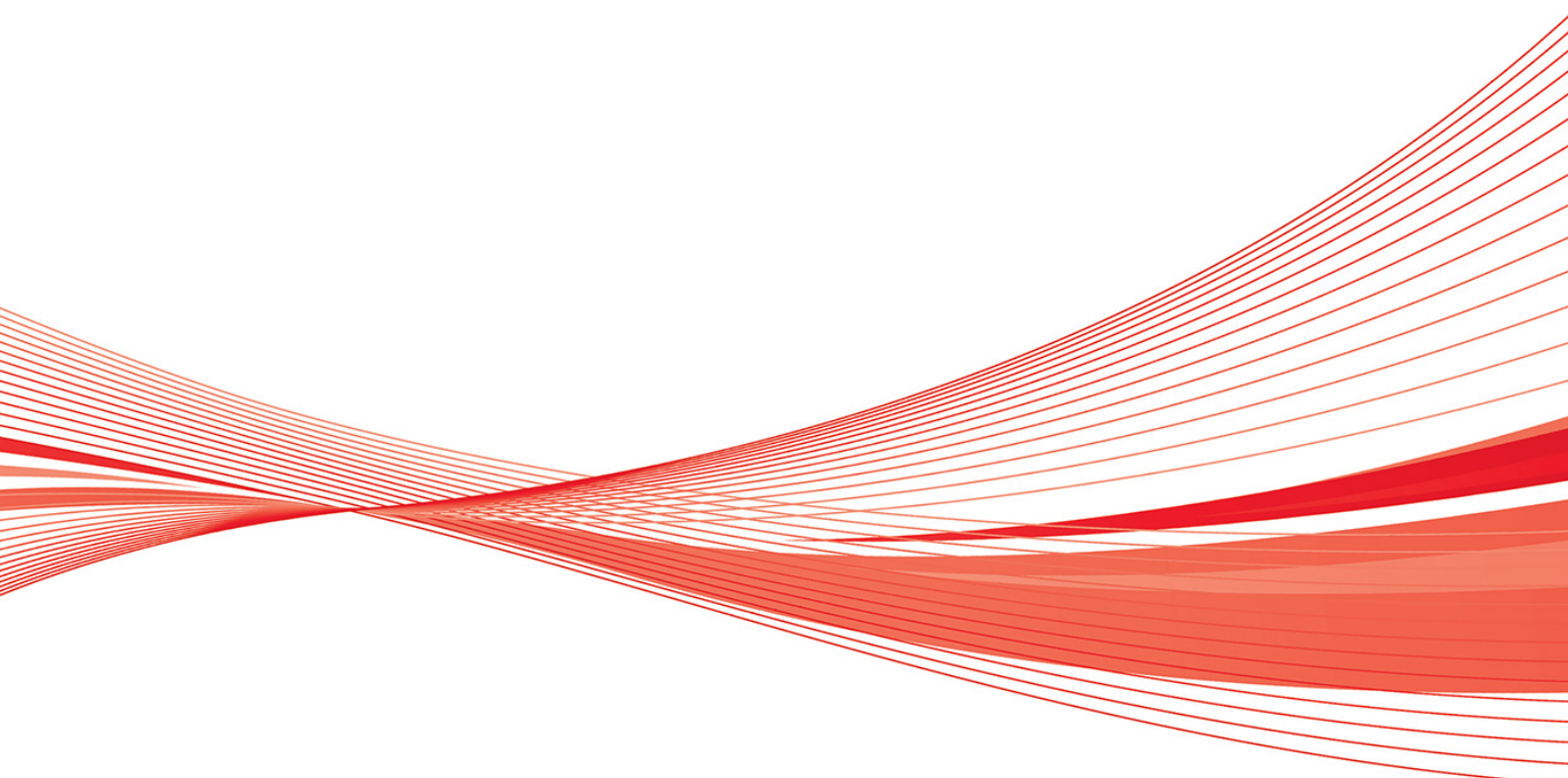




Harwin Test Report Summary

HT02901

Vibration Testing of PC/104 and
PC/104 Plus Connectors



1. Introduction.

1.1. Description and Purpose.

The purpose of this test program is to confirm the vibration, shock and bump performance of Harwin PC/104 and PC/104 Plus connectors. Standard EIA-364-28 was used for this vibration requirement.

1.2. Conclusion.

The following test data has been taken from Harwin test report 619. All of the tested connectors passed the vibration performance test and met the EIA-364-28 test requirements. No visible deficiencies in any of the connectors were apparent after or during testing. Circuit discontinuity of the connectors was at less than one microsecond opening time during vibration.

2. Test Method, Requirements and Results.

2.1. List of Test Samples.

- a) M20-610XX05 – PC/104 Stackthrough Connector, solder tails
- b) M20-616XX05 – PC/104 Non-Stackthrough Connector, press-fit tails
- c) M22-6003005 – PC/104 Plus Stackthrough Connector, solder tails
- d) M22-6013005 – PC/104 Plus Non-Stackthrough Connector, solder tails
- e) M22-6023042 – PC/104 Plus Post Header Connector
- f) M22-6033042 – PC/104 Plus Post Receptacle Connector
- g) M22-6053005 – PC/104 Plus Stackthrough Connector, press-fit tails
- h) M22-6063005 – PC/104 Plus Non-Stackthrough Connector, press-fit tails

2.2. Specification Parameters.

The testing performed included Vibration testing to EIA-364-28, to mated connectors.

2.3. Test Method and Results.

a) Method

The sample was mounted to a high frequency electro dynamic vibration bed subjected to a Swept Sine Test from 10Hz-55Hz-10Hz @1.5mm amplitude once every minute for 120 minutes in each axis, 3 mutually perpendicular directions, 6 hours in total.

b) Results

When measuring for appearance deficiencies, no evidence of physical damage was apparent on any of the connectors. When detecting for open circuits, discontinuity of the circuit was measured at less than one microsecond opening time in all cases.