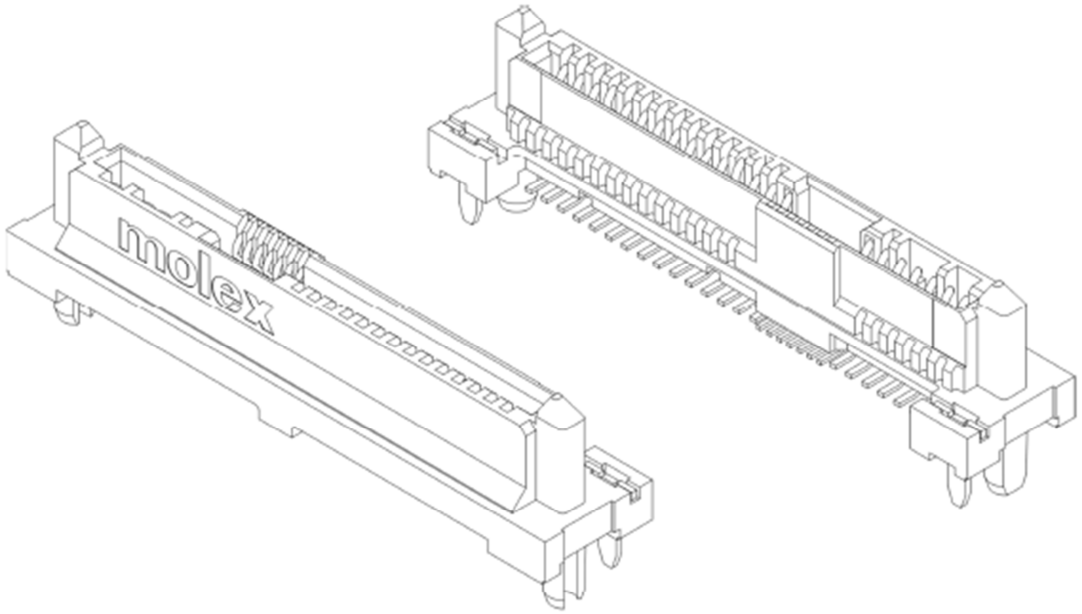
TEST SUMMARY

SIGNAL INTEGRITY TEST SUMMARY

SAS-3 VERTICAL SURFACE MOUNT RECEPTACLE



1.0 SCOPE

This test summary covers the signal integrity performance of SAS-3 vertical surface mount receptacle. The measurement was conducted with a mated SAS-3 plug using Molex designed test fixture. Most of the test fixture effect including the trace was removed using Agilent's Automatic Fixture Removal (AFR) tool in PLTS for all frequency domain measurement.

2.0 PRODUCT DESCRIPTION

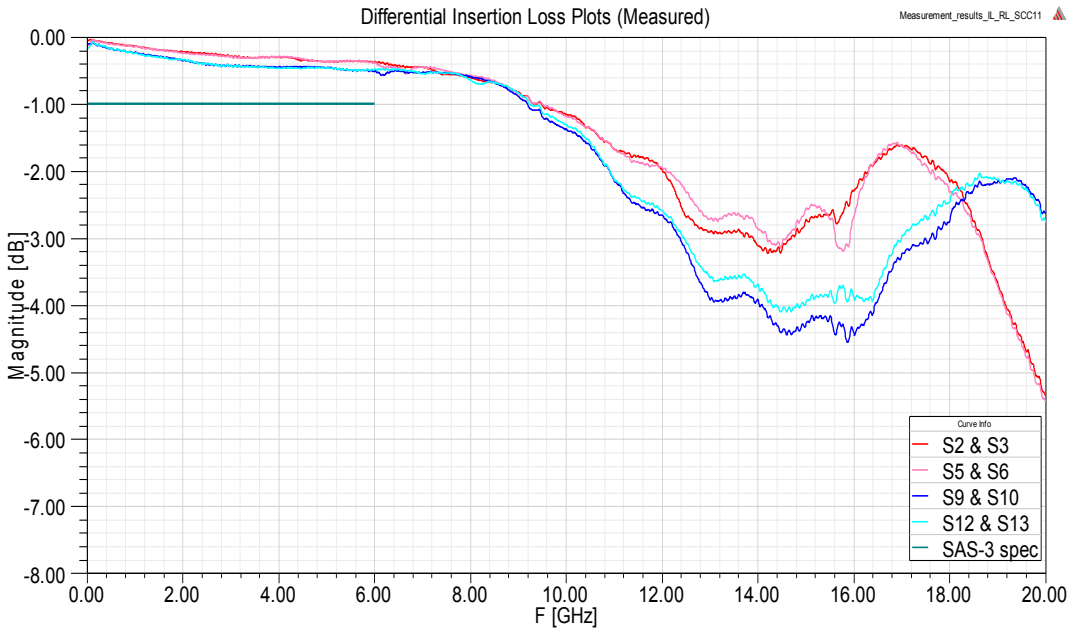
2.1 PRODUCT NAME AND SERIES NUMBER

SAS-3 vertical surface mount receptacle , Series # 78715

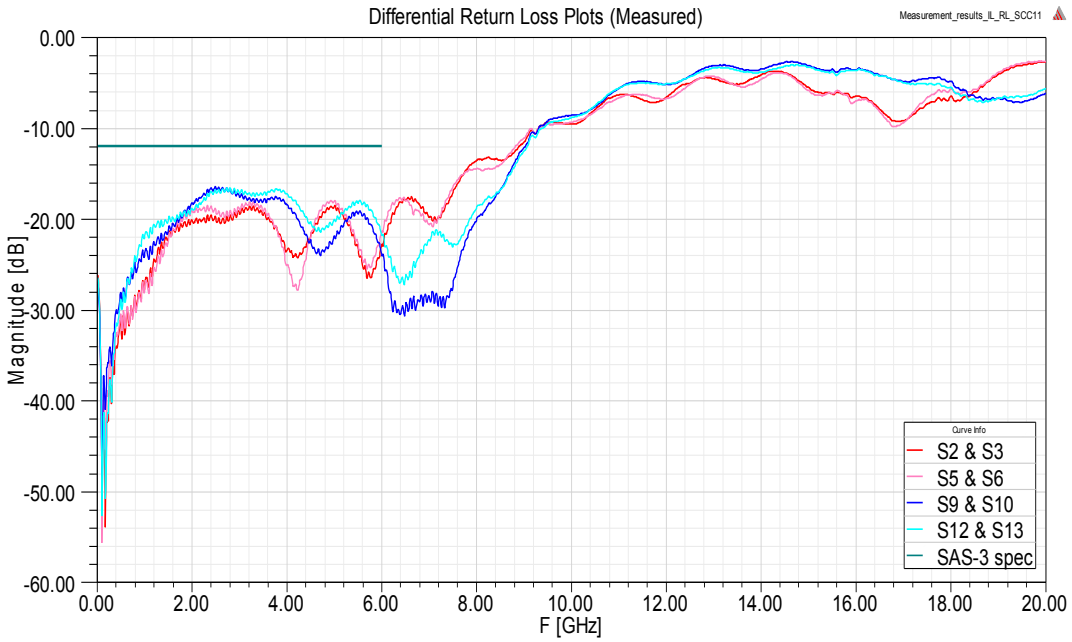
3.0 PERFORMANCE

Frequency Domain

Differential Insertion Loss



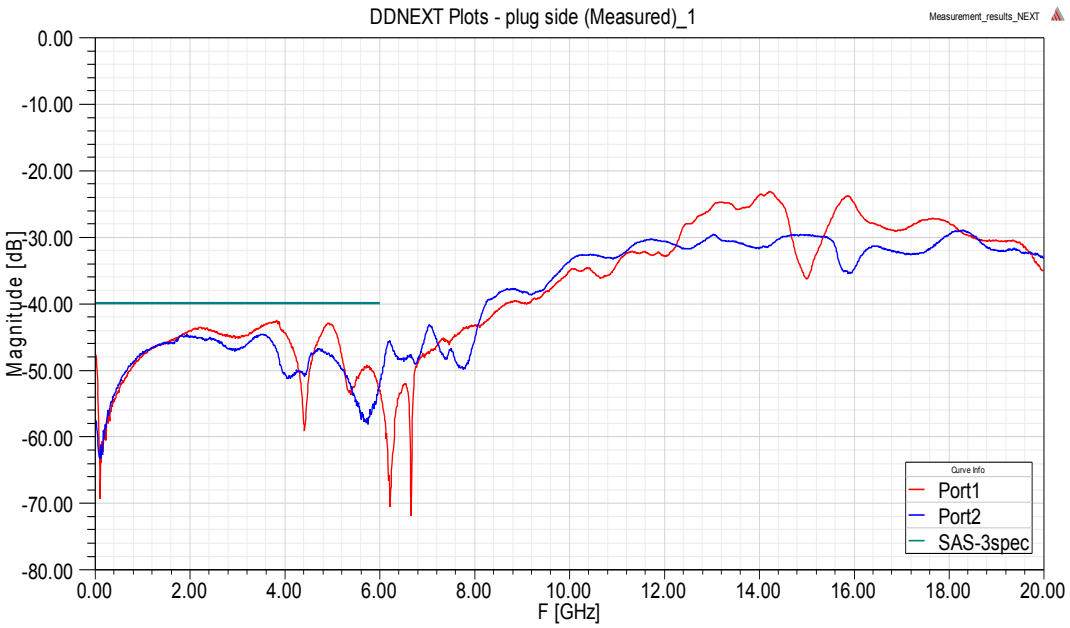
Differential Return Loss



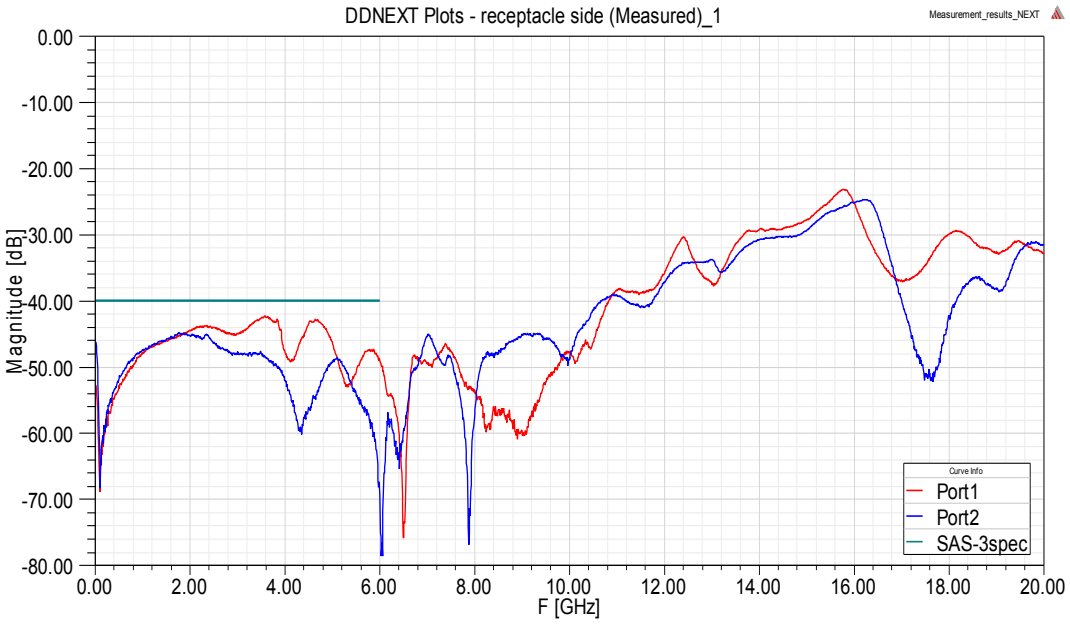
TEST SUMMARY

Frequency Domain (continued)

Differential Near End Crosstalk (Plug Side)

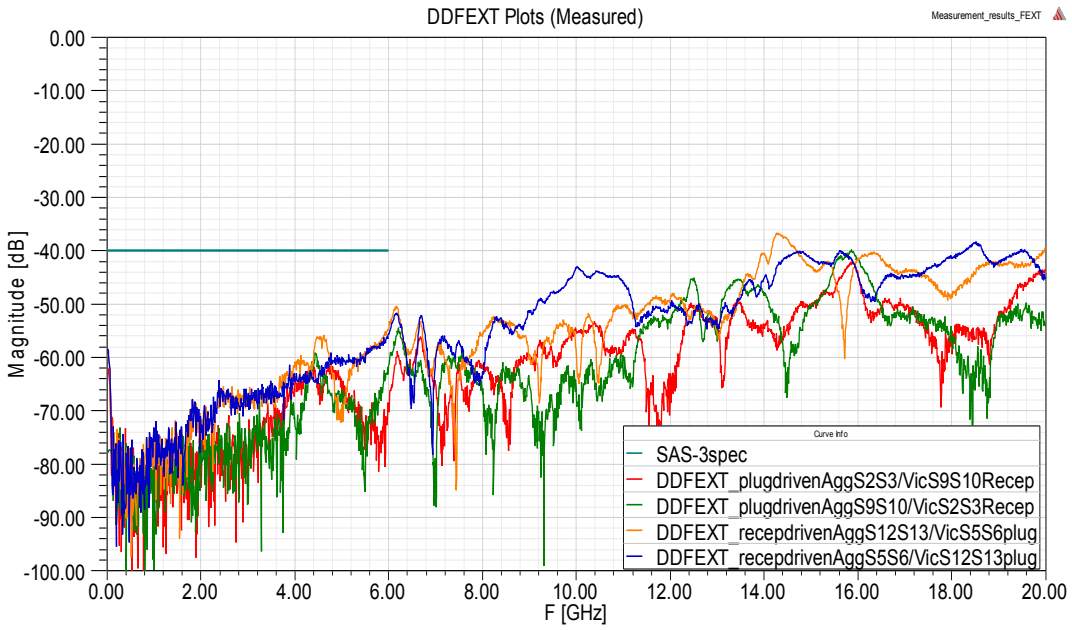


Differential Near End Crosstalk (Receptacle Side)



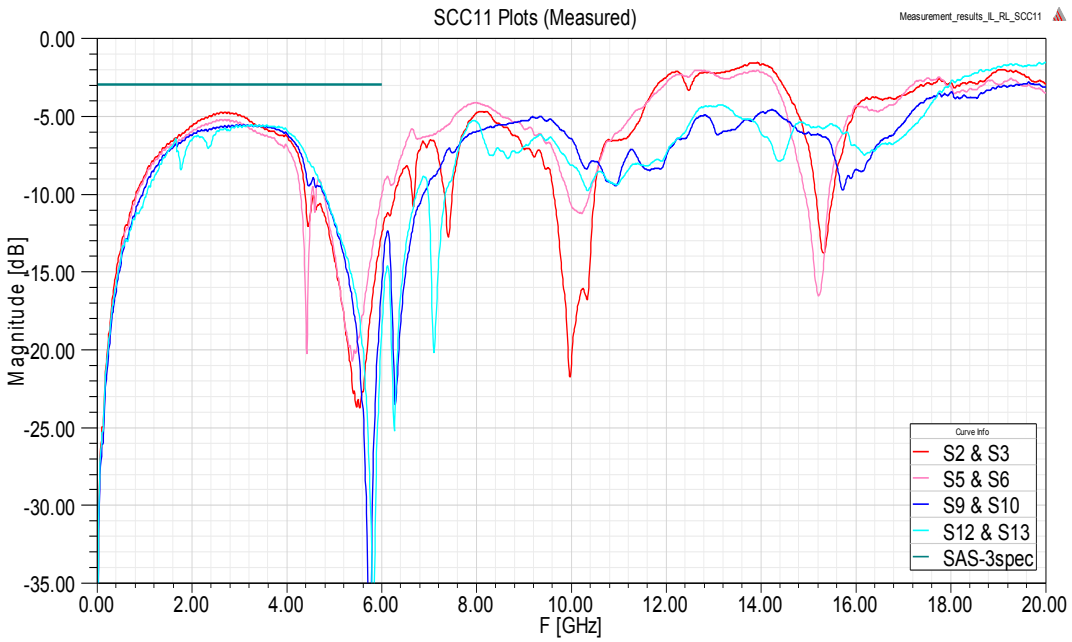
TEST SUMMARY

Differential Far End Crosstalk (Based on T10 configuration)



Frequency Domain (continued)

Common Mode Return Loss (SCC11)



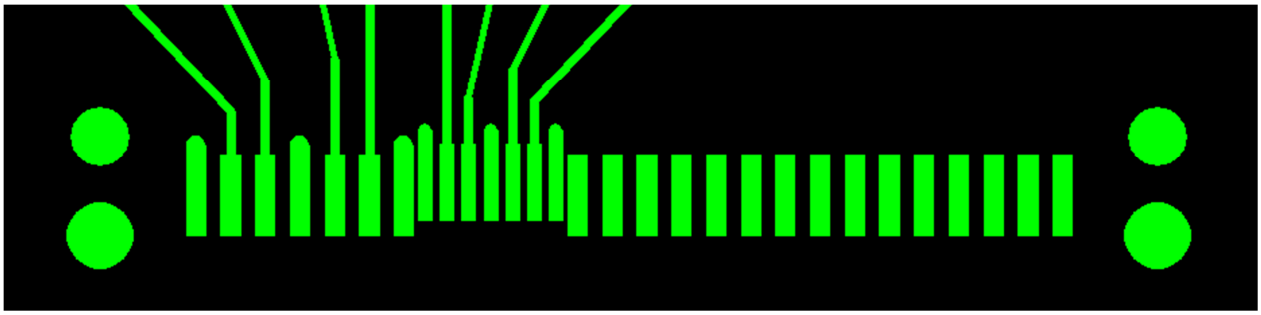
4.0 TEST FIXTURES

Molex Test Boards Information

Material : TU 872-SLK
Thickness : 1.58mm, 4 Layers
High Speed Traces : High-Speed Signals on Layer 1
0.1397mm dielectric thickness between Top Layer & Layer 2 ; Layer 3 & Bottom Layer
45.72mm single-ended trace length (both plug board and receptacle board)

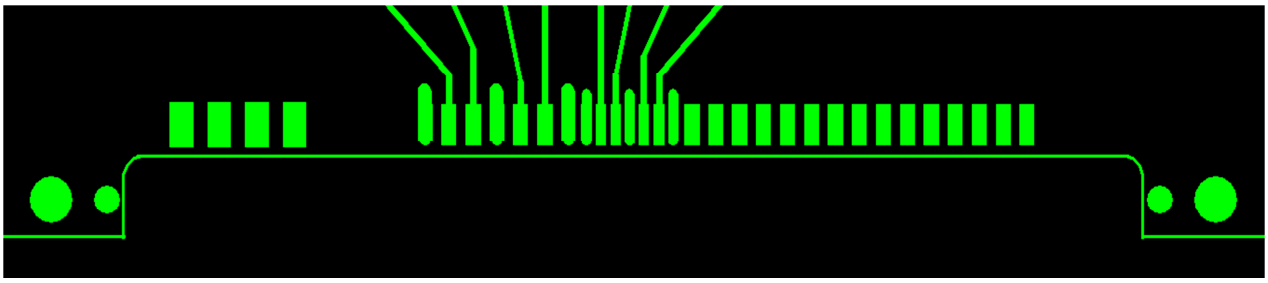
Trace Break-out Details

Host Board (Receptacle)



0.508mm single-ended trace included in measurement.

Device Board (Plug)



0.508mm single-ended trace included in measurement.

For all frequency domain measurement, 90.424mm of single-ended trace will be remove via Agilent's Automatic Fixture Removal (AFR) tool in PLTS (on both host and device boards).