

SAS 2.0 Transmitter Test Load

Electrical Model

(Based on Empirical Measurements)

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I. Model Description

Model Type:	Touchstone (S-Parameter)
Bandwidth:	10MHz to 20GHz
Ports:	(Motherboard) Port 1 through to Port 2 (Motherboard) (Motherboard) Port 3 through to Port 4 (Motherboard)
Model Basis:	Empirical MeasurementsEquipment:Agilent E8364B PNA series network analyzer Agilent N4421B s-parameter test setCalibration:SOLT 10MHz to 20GHz, 1 MHz stepData acquisition:Agilent Physical Layer Test System (PLTS) version 3.01 Molex 26-circuit External iPassTM Test Fixture (PCB 73931-2540)
Model Description:	
	The models provide for simulating pairs B5-B6 to A5-A6. These models are of corresponding terminals on the Molex iPass TM connector and associated 24AWG cable conductors.
	Data representing cable assemblies of ten meters length, with four inches of 7-mil trace-width single-ended-route stripline printed circuit board trace (two inches on each of the signal launch and recovery test fixtures) in 4000-13 material environment.
	The reference plane for the models is located at the SMA connectors.
Filename:	SAS2_transmittertestload.s4p (through measurement)



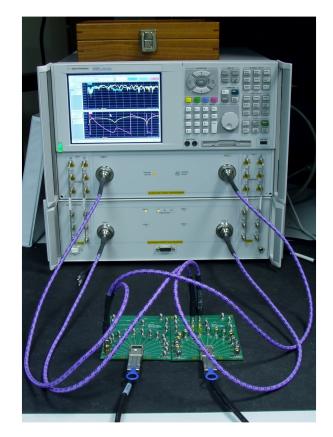


Figure 1. Agilent 8364B/4122 PNA and iPass cable assembly test fixtures

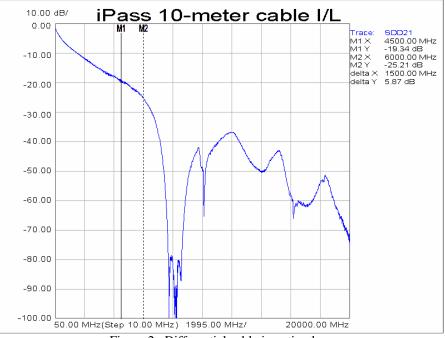


Figure 2. Differential cable insertion loss