

Series: HSEC1-DV

Description: 1.00 mm Edge Rate® High-Speed Edge Card Connector, Vertical

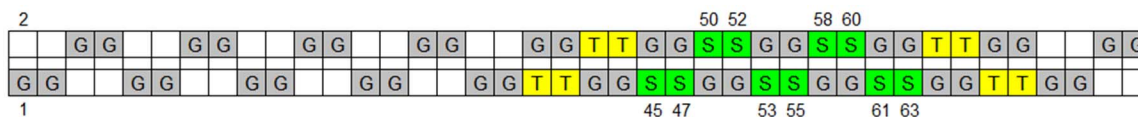
Connector Overview

The HSEC1 series is a double row, edge-card connector on a 1.0mm (.0394") pitch and accepts .062" (1.60 mm) thick cards. At the time of testing, the HSEC1-DV maximum position count is 70 positions per row (140 pins). The data in this report is applicable to HSEC1-DV connector mated to 1.6mm thick card.

Frequency Domain Data Summary

Table 1 - Differential Connector System Performance (85 Ohm)			
Test Parameter	Driver	Receiver	
Insertion Loss	Edge-Card_53,55	HSEC1_53,55	3dB@ 18.6 GHz
Return Loss	Edge-Card_53,55	Edge-Card_53,55	>10dB to 12.9 GHz
Near-End Crosstalk	Edge-Card_53,55	Edge-Card_45,47	<-20dB to 20 GHz
	Edge-Card_53,55	Edge-Card_61,63	<-20dB to 20 GHz
	Edge-Card_53,55	Edge-Card_50,52	<-20dB to 20 GHz
	Edge-Card_53,55	Edge-Card_58,60	<-20dB to 20 GHz
Far-End Crosstalk	Edge-Card_53,55	HSEC1_45,47	<-20dB to 20 GHz
	Edge-Card_53,55	HSEC1_61,63	<-20dB to 20 GHz
	Edge-Card_53,55	HSEC1_50,52	<-20dB to 20 GHz
	Edge-Card_53,55	HSEC1_58,60	<-20dB to 20 GHz

PCIE (85 ohm) Pin Map:





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SAS (100 ohm) Pin Map:

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G		G		G		G		G		G		G	T	T	G	T	T	G	S	S	G	S	S	G	T	T	G		G		G		G
G		G		G		G		G		G		G	T	T	G	S	S	G	S	S	G	S	S	G	T	T	G		G		G		G

1

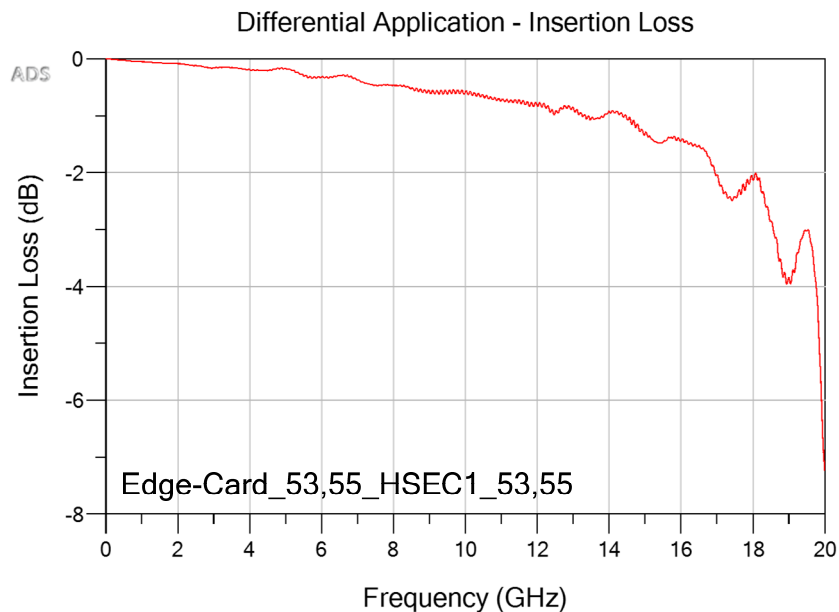
52 54 58 60

45 47 51 53 57 59

Series: HSEC1-DV**Description:** 1.00 mm Edge Rate® High-Speed Edge Card Connector, Vertical**Bandwidth Chart – Differential Insertion Loss**

HSEC1 Connector Series

85Ohm



100Ohm

