

**Series:** HSEC8-RA

**Description:** High-Speed Edge Card Socket, Right Angle Surface-Mount,  
0.8mm (0.0315") Pitch, Mated with 1.60mm (.062") thick load card

## Frequency Domain Data Summary

<b>Table 1 - Single-Ended Connector System Performance</b>			
Case 1 = Short Row; Case 2 = Long Row			
Case	Test Parameter	Configuration	
1	Insertion Loss	GSG	3dB@ 18.0 GHz
	Return Loss	GSG	>10dB to 18.2 GHz
	Near-End Crosstalk	GAQG	<-20dB to 1 GHz
		GAGQG	<-20dB to 16.4 GHz
		Xrow, GAG to GQG	<-20dB to 13.5 GHz
	Far-End Crosstalk	GAQG	<-20dB to 6.0 GHz
		GAGQG	<-20dB to 15.1 GHz
Xrow, GAG to GQG		<-20dB to 20.0 GHz	
2	Insertion Loss	GSG	3dB@ 15.7 GHz
	Return Loss	GSG	>10dB to 11.5 GHz
	Near-End Crosstalk	GAQG	<-20dB to 0.6 GHz
		GAGQG	<-20dB to 16.2 GHz
	Far-End Crosstalk	GAQG	<-20dB to 8.1 GHz
		GAGQG	<-20dB to 20.0 GHz

<b>Table 2 - Differential Connector System Performance</b>			
Case 1 = Short Row; Case 2 = Long Row			
Case	Test Parameter	Configuration	
1	Insertion Loss	GSG	3dB@ 18.3 GHz
	Return Loss	GSG	>10dB to 11.5 GHz
	Near-End Crosstalk	GAQG	<-20dB to 17.4 GHz
		GAGQG	<-20dB to 20.0 GHz
		Xrow, GAG to GQG	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAQG	<-20dB to 20.0 GHz
		GAGQG	<-20dB to 20.0 GHz
Xrow, GAG to GQG		<-20dB to 20.0 GHz	
2	Insertion Loss	GSG	3dB@ 16.0 GHz
	Return Loss	GSG	>10dB to 13.5 GHz
	Near-End Crosstalk	GAQG	<-20dB to 20.0 GHz
		GAGQG	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAQG	<-20dB to 20.0 GHz
		GAGQG	<-20dB to 20.0 GHz

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## Bandwidth Chart – Single-Ended & Differential Insertion Loss

Case 1 = Short Row; Case 2 = Long Row

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