

**Series:** ERM8-RA/ERF8-DV

**Description:** Edge Rate Series Board-to-Board, 0.8mm (0.0315") Pitch, Right Angle to Vertical

**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@ 16.8 GHz
	Return Loss	GSG	>10dB to 6.5 GHz
	Near-End Crosstalk	GAQG	<-20dB to 0.7 GHz
		GAGQG	<-20dB to 7.2 GHz
		Xrow, GAG to GQG	<-20dB to 18.4 GHz
	Far-End Crosstalk	GAQG	<-20dB to 2.9 GHz
		GAGQG	<-20dB to 6.6 GHz
Xrow, GAG to GQG		<-20dB to 20 GHz	
2	Insertion Loss	GSG	3dB@ 13.9 GHz
	Return Loss	GSG	>10dB to 9.8 GHz
	Near-End Crosstalk	GAQG	<-20dB to 0.5 GHz
		GAGQG	<-20dB to 17.0 GHz
	Far-End Crosstalk	GAQG	<-20dB to 3.2 GHz
		GAGQG	<-20dB to 7.1 GHz

<b>Table 2 - Differential Connector System Performance</b>			
Case 1 = Short Row; Case 2 = Long Row			
Case	Test Parameter	Configuration	
1	Insertion Loss	GSSG	3dB@ 17.2 GHz
	Return Loss	GSSG	>10dB to 8.4 GHz
	Near-End Crosstalk	GAAQQG	<-20dB to 3.9 GHz
		GAAGQQG	<-20dB to 20.0 GHz
		Xrow, GAAG to GQQG	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAAQQG	<-20dB to 20.0 GHz
		GAAGQQG	<-20dB to 20.0 GHz
Xrow, GAAG to GQQG		<-20dB to 20.0 GHz	
2	Insertion Loss	GSSG	3dB@ 13.6 GHz
	Return Loss	GSSG	>10dB to 10.9 GHz
	Near-End Crosstalk	GAAQQG	<-20dB to 3.3 GHz
		GAAGQQG	<-20dB to 20.0 GHz
	Far-End Crosstalk	GAAQQG	<-20dB to 20.0 GHz
		GAAGQQG	<-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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