

Series: TEM-DH/SEM

Description: Micro Tiger Eye™ Board-to-Board, 0.8mm Pitch, Right Angle

To calculate the Speed Rating, the measured -3 dB point is rounded-up to the nearest half-GHz level. The up rounding corrects for a portion of the test board's trace loss, since a short length of trace loss included in the loss data in this report. The resulting loss value is then doubled to determine the approximate maximum data rate in Gigabits per second (Gbps).

For example, a connector with a -3 dB point of 7.8 GHz would have a Speed Rating of 8 GHz/ 16 Gbps. A connector with a -3 dB point of 7.2 GHz would have a Speed Rating of 7.5 GHz/ 15 Gbps.

Frequency Domain Data Summary

Table 1 - Single-Ended Connector System Performance Case 1 = Short Row; Case 2 = Long Row			
Case	Test Parameter	Configuration	
1	Insertion Loss	GSG	-3dB @ 12.70 GHz
	Return Loss	GSG	-9.35dB @ 12.70 GHz
	Near-End Crosstalk	GAQG	-11.31dB @ 12.70 GHz
		GAGQG	-24.70dB @ 12.70 GHz
		Xrow, GAG to GQG	-19.55dB @ 12.70 GHz
	Far-End Crosstalk	GAQG	-18.55dB @ 12.70 GHz
		GAGQG	-27.95dB @ 12.70 GHz
Xrow, GAG to GQG		-27.10dB @ 12.70 GHz	
2	Insertion Loss	GSG	-3dB @ 13.80 GHz
	Return Loss	GSG	-9.23dB @ 13.80 GHz
	Near-End Crosstalk	GAQG	-26.69dB @ 13.80 GHz
		GAGQG	-19.05dB @ 13.80 GHz
		Xrow, GAG to GQG	-32.38dB @ 13.80 GHz
	Far-End Crosstalk	GAQG	-14.79dB @ 13.80 GHz
		GAGQG	-16.50dB @ 13.80 GHz
Xrow, GAG to GQG		-16.66dB @ 13.80 GHz	

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Table 2 - Differential Connector System Performance			
Case 1 = Short Row; Case 2 = Long Row			
Case	Test Parameter	Configuration	
1	Insertion Loss	GSSG	-3dB @ 17.30GHz
	Return Loss	GSSG	-6.70dB @ 17.30GHz
	Near-End Crosstalk	GAAQQG	-19.76dB @ 17.30GHz
		GAAGQQG	-22.90dB @ 17.30GHz
		Xrow, GAAG to GQQG	-30.04dB @ 17.30GHz
	Far-End Crosstalk	GAAQQG	-22.82dB @ 17.30GHz
		GAAGQQG	-38.96dB @ 17.30GHz
Xrow, GAAG to GQQG		-31.51dB @ 17.30GHz	
2	Insertion Loss	GSSG	-3dB @ 20GHz
	Return Loss	GSSG	-11.73dB @ 20GHz
	Near-End Crosstalk	GAAQQG	-21.61dB @ 20GHz
		GAAGQQG	-27.18dB @ 20GHz
		Xrow, GAAG to GQQG	-23.77dB @ 20GHz
	Far-End Crosstalk	GAAQQG	-22.03dB @ 20GHz
		GAAGQQG	-31.97dB @ 20GHz
Xrow, GAAG to GQQG		-26.20dB @ 20GHz	

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Bandwidth Chart – Single-Ended & Differential Insertion Loss

Case 1 = Short Row; Case 2 = Long Row

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