

Series: FS5/FT5

Description: High Speed Floating Contact, Board-to-Board, 5mm Stack Height, 0.5mm Pitch,

signaling environment. 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	Test Parameter	Configuration	
1	Insertion Loss	GSG	3dB @ 5.8 GHz
	Return Loss	GSG	> 10dB to 3.9 GHz
	Near-End Crosstalk	GAQG	< -20dB to 0.5 GHz
		GAGQG	< -20dB to 10.4 GHz
		Xrow, GAG to QQG	< -20dB to 20.0 GHz
	Far-End Crosstalk	GAQG	< -20dB to 4.3 GHz
		GAGQG	< -20dB to 5.8 GHz
		Xrow, GAG to QQG	< -20dB to 15.9 GHz
	2	Insertion Loss	GSG
Return Loss		GSG	> 10dB to 4.0 GHz
Near-End Crosstalk		GAQG	< -20dB to 0.5 GHz
		GAGQG	< -20dB to 10.4 GHz
		Xrow, GAG to QQG	< -20dB to 20.0 GHz
Far-End Crosstalk		GAQG	< -20dB to 11.7 GHz
		GAGQG	< -20dB to 5.6 GHz
		Xrow, GAG to QQG	< -20dB to 20.0 GHz

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Table 2 - Differential Connector System Performance			
Case	Test Parameter	Configuration	
1	Insertion Loss	GSSG	3dB @ 5.8 GHz
	Return Loss	GSSG	> 10dB to 4.4 GHz
	Near-End Crosstalk	GAAQQG	< -20dB to 20.0 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 @ 5.8 GHz
	Return Loss	GSSG	> 10dB to 4.0 GHz
	Near-End Crosstalk	GAAQQG	< -20dB to 20.0 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

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Bandwidth Chart – Single-Ended & Differential Insertion Loss

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