

Series: UEC5-2

Description: 28G+ FireFly™ Edge Card Socket Assembly, 0.5mm Pitch

Connector Overview

The UEC5-2 series the 28G+ FireFly™ micro high-speed edge card connector. It is one part of a two-piece system; mating with both copper and optical FireFly™ cable assemblies. At the time of testing, the UEC5-2 maximum position count is 19 positions per row. The data in this report is applicable to UEC5 connector mated to 1.6mm thick card.

Frequency Domain Data Summary

Table 1 - Differential Connector System Performance			
Test Parameter	Driver	Receiver	
Insertion Loss	Edge-Card_A8A9	UEC5_A8A9	3dB@ 23.9 GHz
	Edge-Card_B8B9	UEC5_B8B9	3dB@ 31.8 GHz
Return Loss	Edge-Card_A8A9	Edge-Card_A8A9	>10dB to 14.6 GHz
	Edge-Card_B8B9	Edge-Card_B8B9	>10dB to 14.1 GHz
Near-End Crosstalk	Edge-Card_A8A9	Edge-Card_A5A6	<-20dB to 40 GHz
	Edge-Card_A8A9	Edge-Card_A14A15	<-20dB to 40 GHz
	Edge-Card_A8A9	Edge-Card_B5B6	<-20dB to 40 GHz
	Edge-Card_A8A9	Edge-Card_B8B9	<-20dB to 40 GHz
	Edge-Card_A8A9	Edge-Card_B14B15	<-20dB to 40 GHz
	Edge-Card_B8B9	Edge-Card_B5B6	<-20dB to 40 GHz
	Edge-Card_B8B9	Edge-Card_B14B15	<-20dB to 40 GHz
Far-End Crosstalk	Edge-Card_A8A9	UEC5_A5A6	<-20dB to 40 GHz
	Edge-Card_A8A9	UEC5_A14A15	<-20dB to 40 GHz
	Edge-Card_A8A9	UEC5_B5B6	<-20dB to 40 GHz
	Edge-Card_A8A9	UEC5_B8B8	<-20dB to 40 GHz
	Edge-Card_A8A9	UEC5_B14B15	<-20dB to 40 GHz
	Edge-Card_B8B9	UEC5_B5B6	<-20dB to 40 GHz
	Edge-Card_B8B9	UEC5_B14B15	<-20dB to 40 GHz

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Pin Map:

A1				A5	A6	A8				A9	A14				A15			
G	T	T	G	S	S	G	S	S	G	T	T	G	S	S	G	T	T	G
G	T	T	G	S	S	G	S	S	G	T	T	G	S	S	G	T	T	G
B1				B5	B6	B8				B9	B14				B15			

Bandwidth Chart – Differential Insertion Loss

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