

Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Time Domain Data Summary

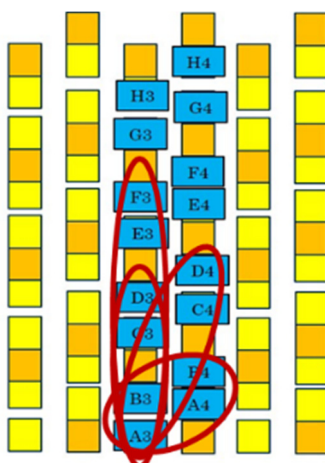
Table 1 - Differential Impedance (Ω)				
Diff Pair Combination	Signal Rise-time	30ps	50ps	100ps
A3-B3	Maximum Impedance	101.0	100.0	99.3
	Minimum Impedance	89.8	90.1	90.9
C3-D3	Maximum Impedance	102.0	101.0	99.2
	Minimum Impedance	88.7	89.7	91.0
E3-F3	Maximum Impedance	101.0	99.8	99.3
	Minimum Impedance	89.4	90.0	90.9
G3-H3	Maximum Impedance	101.0	101.0	99.9
	Minimum Impedance	88.8	89.1	89.5
A4-B4	Maximum Impedance	98.4	98.1	97.5
	Minimum Impedance	88.6	90.0	91.3
C4-D4	Maximum Impedance	103.0	102.0	99.9
	Minimum Impedance	89.6	90.7	92.0
E4-F4	Maximum Impedance	103.0	101.0	99.6
	Minimum Impedance	90.0	90.4	91.5
G4-H4	Maximum Impedance	99.2	99.1	98.8
	Minimum Impedance	89.2	89.8	90.7

Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 2 - Differential Crosstalk (%) – A3B3						
	Input(tr)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_A3B3	HDTF-RA_A4B4	0.8	0.6	0.4
		HDTF-RA_A3B3	HDTF-RA_C3D3	0.6	0.5	0.3
		HDTF-RA_A3B3	HDTF-RA_C4D4	0.3	0.2	0.1
		HDTF-RA_A3B3	HDTF-RA_E3F3	0.2	0.1	<0.1
	FEXT	HDTF-RA_A3B3	HDTM_A4B4	1.1	0.9	0.5
		HDTF-RA_A3B3	HDTM_C3D3	1.1	0.8	0.5
		HDTF-RA_A3B3	HDTM_C4D4	0.3	0.2	0.1
		HDTF-RA_A3B3	HDTM_E3F3	0.2	0.1	0.1

Differential Crosstalk Pin Map for A3B3:

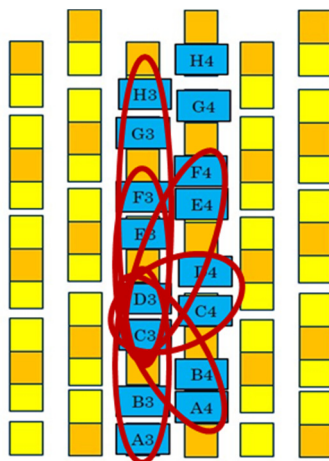


Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 3 - Differential Crosstalk (%) – C3D3						
	Input(t,r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_C3D3	HDTF-RA_A3B3	0.6	0.5	0.3
		HDTF-RA_C3D3	HDTF-RA_A4B4	0.6	0.5	0.4
		HDTF-RA_C3D3	HDTF-RA_C4D4	0.2	0.2	0.1
		HDTF-RA_C3D3	HDTF-RA_E3F3	0.5	0.4	0.3
		HDTF-RA_C3D3	HDTF-RA_E4F4	0.3	0.2	0.1
		HDTF-RA_C3D3	HDTF-RA_G3H3	0.3	0.1	0.1
	FEXT	HDTF-RA_C3D3	HDTM_A3B3	0.7	0.5	0.3
		HDTF-RA_C3D3	HDTM_A4B4	0.1	0.1	<0.1
		HDTF-RA_C3D3	HDTM_C4D4	0.3	0.2	0.1
		HDTF-RA_C3D3	HDTM_E3F3	0.5	0.4	0.3
		HDTF-RA_C3D3	HDTM_E4F4	0.2	0.2	0.1
		HDTF-RA_C3D3	HDTM_G3H3	0.2	0.2	0.1

Differential Crosstalk Pin Map for C3D3:

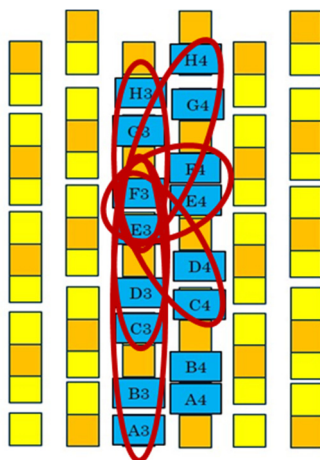


Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 4 - Differential Crosstalk (%) – E3F3						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA E3F3	HDTF-RA A3B3	0.2	0.1	<0.1
		HDTF-RA E3F3	HDTF-RA C3D3	0.5	0.4	0.3
		HDTF-RA E3F3	HDTF-RA C4D4	0.5	0.4	0.4
		HDTF-RA E3F3	HDTF-RA E4F4	0.3	0.2	0.2
		HDTF-RA E3F3	HDTF-RA G3H3	1.0	0.5	0.2
		HDTF-RA E3F3	HDTF-RA G4H4	0.3	0.2	0.1
	FEXT	HDTF-RA E3F3	HDTM A3B3	0.2	0.2	0.1
		HDTF-RA E3F3	HDTM C3D3	0.5	0.4	0.2
		HDTF-RA E3F3	HDTM C4D4	0.1	0.1	0.1
		HDTF-RA E3F3	HDTM E4F4	0.3	0.3	0.2
		HDTF-RA E3F3	HDTM G3H3	1.2	1.0	0.6
		HDTF-RA E3F3	HDTM G4H4	0.2	0.1	0.1

Differential Crosstalk Pin Map for E3F3:

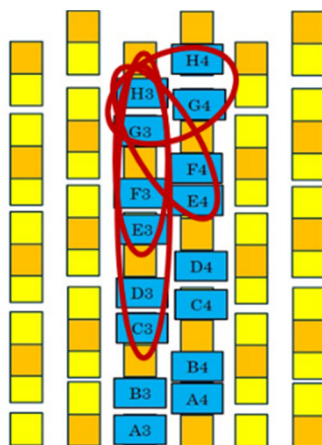


Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 5 - Differential Crosstalk (%) – G3H3						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_G3H3	HDTF-RA_C3D3	0.7	0.3	0.1
		HDTF-RA_G3H3	HDTF-RA_E3F3	1.0	0.5	0.3
		HDTF-RA_G3H3	HDTF-RA_E4F4	0.6	0.4	0.3
		HDTF-RA_G3H3	HDTF-RA_G4H4	0.7	0.4	0.2
	FEXT	HDTF-RA_G3H3	HDTM_C3D3	0.3	0.2	0.1
		HDTF-RA_G3H3	HDTM_E3F3	1.2	0.9	0.5
		HDTF-RA_G3H3	HDTM_E4F4	0.2	0.1	0.1
		HDTF-RA_G3H3	HDTM_G4H4	0.8	0.7	0.4

Differential Crosstalk Pin Map for G3H3:



Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 6 - Differential Crosstalk (%) – A4B4						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_A4B4	HDTF-RA_A3B3	0.8	0.6	0.4
		HDTF-RA_A4B4	HDTF-RA_C3D3	0.6	0.5	0.4
		HDTF-RA_A4B4	HDTF-RA_C4D4	0.5	0.4	0.3
		HDTF-RA_A4B4	HDTF-RA_E4F4	0.1	0.1	<0.1
	FEXT	HDTF-RA_A4B4	HDTM_A3B3	1.2	1.0	0.7
		HDTF-RA_A4B4	HDTM_C3D3	0.2	0.2	0.1
		HDTF-RA_A4B4	HDTM_C4D4	0.5	0.4	0.2
		HDTF-RA_A4B4	HDTM_E4F4	0.1	<0.1	<0.1

Differential Crosstalk Pin Map for A4B4:

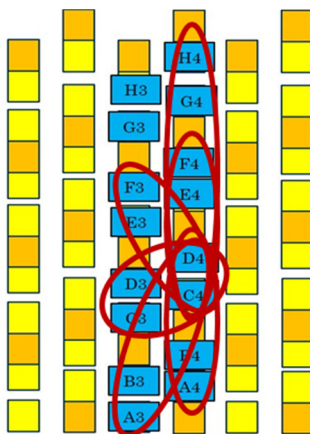


Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 7 - Differential Crosstalk (%) – C4D4						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_C4D4	HDTF-RA_A3B3	0.3	0.2	0.1
		HDTF-RA_C4D4	HDTF-RA_A4B4	0.5	0.4	0.3
		HDTF-RA_C4D4	HDTF-RA_C3D3	0.2	0.1	0.1
		HDTF-RA_C4D4	HDTF-RA_E3F3	0.5	0.4	0.4
		HDTF-RA_C4D4	HDTF-RA_E4F4	0.6	0.4	0.3
		HDTF-RA_C4D4	HDTF-RA_G4H4	0.1	0.1	<0.1
	FEXT	HDTF-RA_C4D4	HDTM_A3B3	0.2	0.2	0.1
		HDTF-RA_C4D4	HDTM_A4B4	0.4	0.2	0.1
		HDTF-RA_C4D4	HDTM_C3D3	0.5	0.4	0.2
		HDTF-RA_C4D4	HDTM_E3F3	0.2	0.1	0.1
		HDTF-RA_C4D4	HDTM_E4F4	0.4	0.2	0.1
		HDTF-RA_C4D4	HDTM_G4H4	0.1	0.1	<0.1

Differential Crosstalk Pin Map for C4D4:

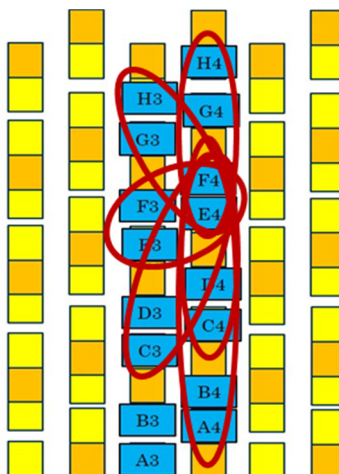


Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 8 - Differential Crosstalk (%) – E4F4						
	Input(t _r)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA E4F4	HDTF-RA A4B4	0.1	0.1	<0.1
		HDTF-RA E4F4	HDTF-RA C3D3	0.3	0.2	0.1
		HDTF-RA E4F4	HDTF-RA C4D4	0.6	0.4	0.3
		HDTF-RA E4F4	HDTF-RA E3F3	0.3	0.3	0.2
		HDTF-RA E4F4	HDTF-RA G3H3	0.6	0.4	0.3
		HDTF-RA E4F4	HDTF-RA G4H4	0.6	0.3	0.2
	FEXT	HDTF-RA E4F4	HDTM A4B4	0.1	0.1	<0.1
		HDTF-RA E4F4	HDTM C3D3	0.2	0.1	0.1
		HDTF-RA E4F4	HDTM C4D4	0.5	0.3	0.1
		HDTF-RA E4F4	HDTM E3F3	0.7	0.5	0.3
		HDTF-RA E4F4	HDTM G3H3	0.3	0.2	0.1
		HDTF-RA E4F4	HDTM G4H4	0.4	0.4	0.2

Differential Crosstalk Pin Map for E4F4:



Series: HDTM / HDTF-RA

Description: XCede® HD 1.80 mm Backplane Connector, 4-pair, 100 ohm Version

Table 9 - Differential Crosstalk (%) – G4H4						
	Input(tr)	Driver	Receiver	30ps	50ps	100ps
	NEXT	HDTF-RA_G4H4	HDTF-RA_C4D4	0.2	0.1	<0.1
		HDTF-RA_G4H4	HDTF-RA_E3F3	0.3	0.2	0.1
		HDTF-RA_G4H4	HDTF-RA_E4F4	0.6	0.3	0.2
		HDTF-RA_G4H4	HDTF-RA_G3H3	0.7	0.4	0.2
	FEXT	HDTF-RA_G4H4	HDTM_C4D4	0.1	0.1	<0.1
		HDTF-RA_G4H4	HDTM_E3F3	0.1	0.1	0.1
		HDTF-RA_G4H4	HDTM_E4F4	0.8	0.6	0.3
		HDTF-RA_G4H4	HDTM_G3H3	1.2	1.0	0.5

Differential Crosstalk Pin Map for G4H4:

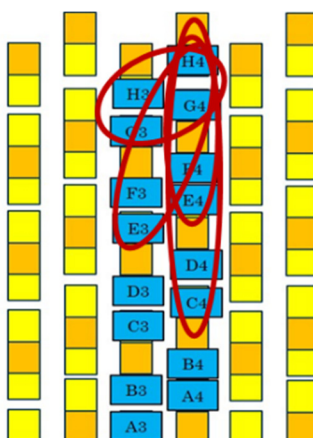


Table 10 - Propagation Delay	
Differential (A3B3)	182 ps
Differential (C3D3)	205 ps
Differential (E3F3)	233 ps
Differential (G3H3)	269 ps
Differential (A4B4)	168 ps
Differential (C4D4)	196 ps
Differential (E4F4)	226 ps
Differential (G4H4)	259 ps