

DCM Test Report

Cable Type : 4x2x23 x LSZH	Factory Number :	Data File Name : DA049717.XLD
Cable I.D. : UTP#23X4P CABLE	Order Number :	Specification File : SLOT CAT 6.LDS
Temperature : 25.00 [度]	Operator : CHANG	Test Date : 05/13/2010
Length : 305.00 m	Number of Pairs to Test : 4	Test Time : 03:52:23 PM
Starting Position : 4		

Pass - Fail Test Certificate - 4 Pairs

High Frequency

Test Type	Test Result
Input Impedance (Zin)(Ohms)(Open/Short)	OK
Return Loss (RL)(dB)	OK
Insertion Loss (IL)(Curve Fit)(dB/100.0 m)@20C	OK
Near End Crosstalk Loss (NEXT)(dB)	OK
Power Sum NEXT(PSNEXT)(dB)	OK
ATT to NEXT Ratio (ACR)(dB/100.0 m)	OK
Power Sum ACR (PS ACR)(dB/100.0 m)	OK

Low Frequency

Test Type	Test Result
Conductor Resistance(Ohms/100.0 m)@20C	OK
Resistance Unbalance(%)@20C	OK
Mutual Capacitance(nF/100.0 m)@1000Hz	OK
Cap. Unbalance to Ground(pF/0.0 m)@1000Hz	OK
Cap. Unbalance to Shield(pF/100.0 m)@1000Hz	OK

Signature:	Approved:	Date:
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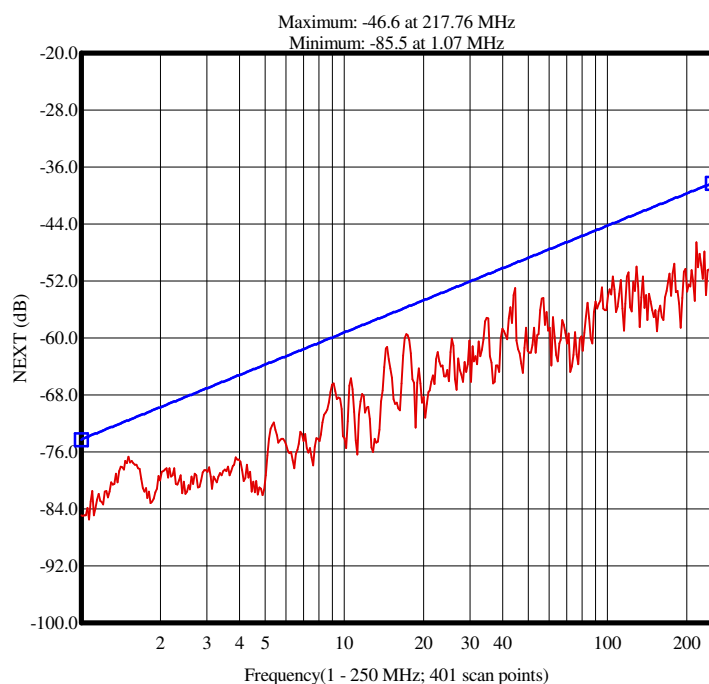
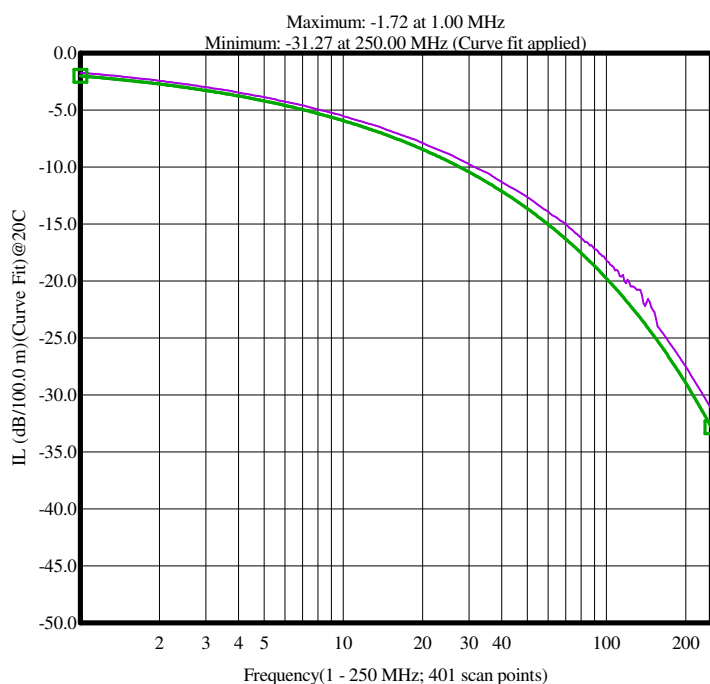
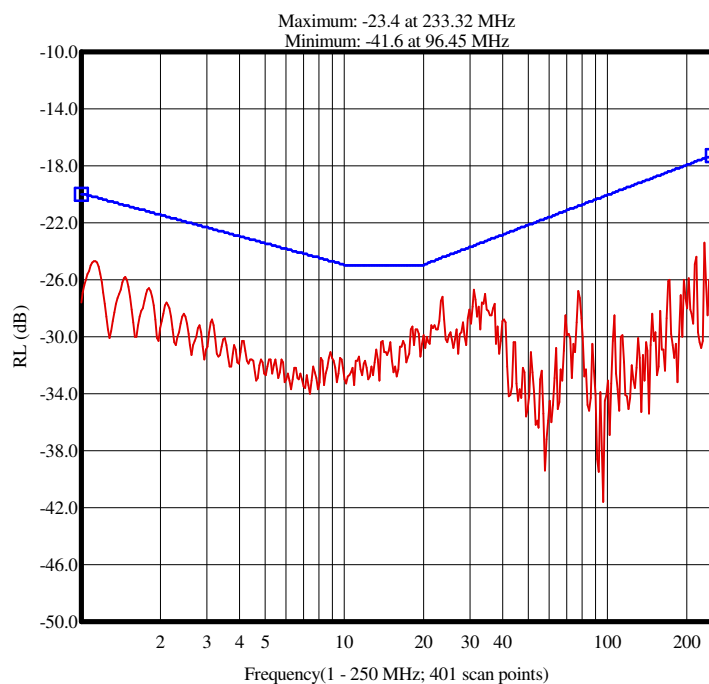
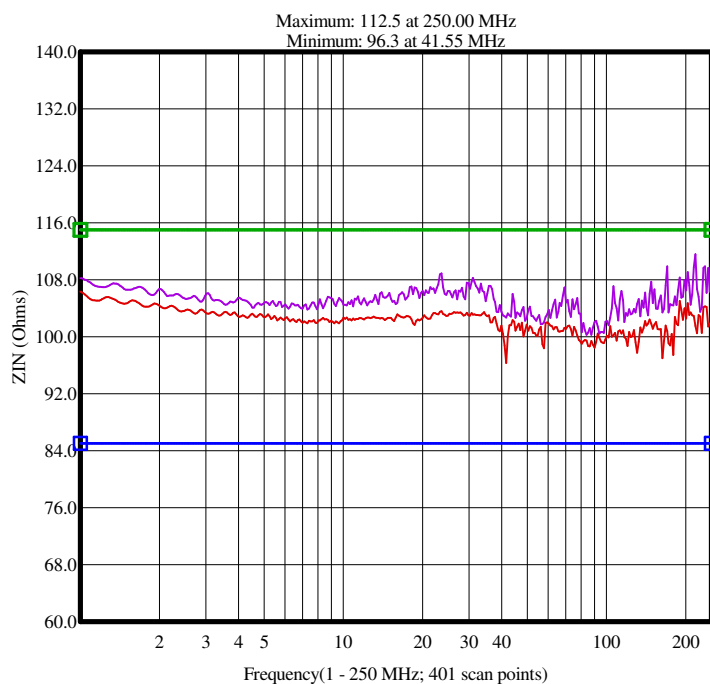
DCM Test Report

Cable Type : 4x2x23 x LSZH	Factory Number :	Data File Name : DA049717.XLD
Cable I.D. : UTP#23X4P CABLE	Order Number :	Specification File : SLOT CAT 6.LDS
Temperature : 25.00 卨	Operator : CHANG	Test Date : 05/13/2010
Length : 305.00 m	Number of Pairs to Test : 4	Test Time : 03:52:23 PM
Starting Position : 4		

Worst Case Summary

High Frequency

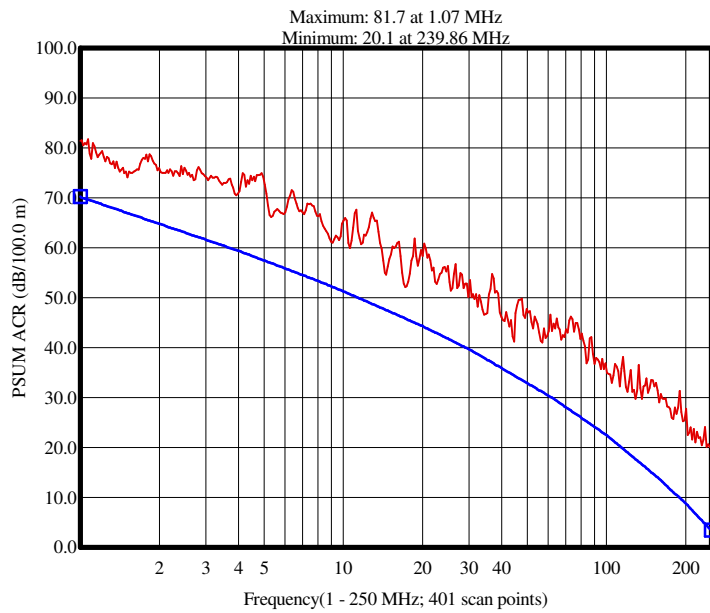
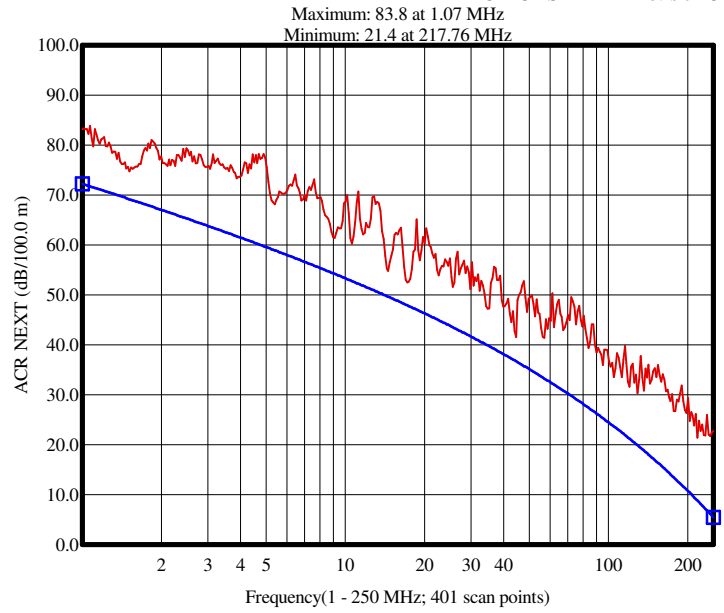
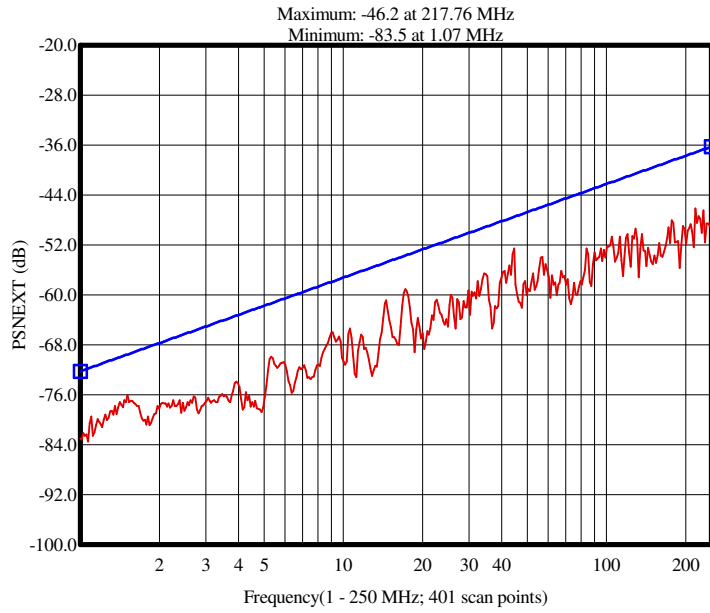
Test Type	Specification	Measured (Pair)	Margin	@ Frequency (MHz)	Test Result
Input Impedance (Zin)(Open/Short)	85.0 (Min)	96.3 (Pair 4)	11.3	41.55	Passed
Input Impedance (Zin)(Open/Short)	115.0 (Max)	112.4 (Pair 2)	2.6	250.00	Passed
Return Loss (RL)	24.4 (Min)	27.2 (Pair 2)	2.8	23.59	Passed
Insertion Loss (IL)(Curve Fit)@20C	2.11 (Max)	1.83 (Pair 1)	0.28	1.12	Passed
Near End Crosstalk Loss (NEXT)	49.5 (Min)	53.0 (Pairs 2-4)	3.5	44.52	Passed
Power Sum NEXT(PSNEXT)	47.5 (Min)	52.6 (Pair 2)	5.1	44.52	Passed
ATT to NEXT Ratio (ACR)	47.9 (Min)	52.5 (Pairs 2-4)	4.6	17.18	Passed
Power Sum ACR (PS ACR)	45.8 (Min)	52.1 (Pair 2)	6.3	17.18	Passed



N/A = Not Applicable.
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Worst Case Summary

Low Frequency

Statistical Parameter	Maximum		Minimum		Average Maximum		Standard Deviation		Result
	Spec Limit	Measured	Spec Limit	Measured	Spec Limit	Measured	Spec Limit	Measured	
Conductor Resistance(Ohms/100.0 m)@20C	9.38	7.39	xxx	7.11	xxx	7.26	xxx	0.114	Passed
Resistance Unbalance(%)	5.00	0.58	xxx	0.08	xxx	0.31	xxx	0.191	Passed
Mutual Capacitance(nF/100.0 m)@1000Hz	5.80	5.03	xxx	4.69	xxx	4.85	xxx	0.139	Passed
Cap. Unbalance to Ground(pF/0.0 m)@1000Hz	330.00	0.00	xxx	0.00	xxx	0.00	xxx	1.000	Passed
Cap. Unbalance to Shield(pF/100.0 m)@1000Hz	330.00	0.52	xxx	0.40	xxx	0.46	xxx	0.059	Passed

Detail: Resistance/Capacitance Measurement -Normalized

Test Types	Conductor Resistance Ra @20C	Conductor Resistance Rb @20C	Resistance Unbalance	Mutual Capacitance @1000 Hz	Capacitance Unbalance to Ground @1000 Hz	Capacitance Unbalance to Shield @1000 Hz	Test Result
Unit	Ohms/100.0 m	Ohms/100.0 m	%	nF/100.0 m	pF/0.0 m	pF/100.0 m	
Max Spec	9.38	9.38	5.00	5.80	330.00	330.00	
Min Spec	xxx	xxx	xxx	xxx	xxx	xxx	
Pair 1 [4]	7.37	7.39	0.19	5.03	0.00	0.40	Passed
Pair 2 [5]	7.16	7.15	0.08	4.74	0.00	0.40	Passed
Pair 3 [6]	7.34	7.37	0.38	4.95	0.00	0.52	Passed
Pair 4 [7]	7.15	7.11	0.58	4.69	0.00	0.51	Passed

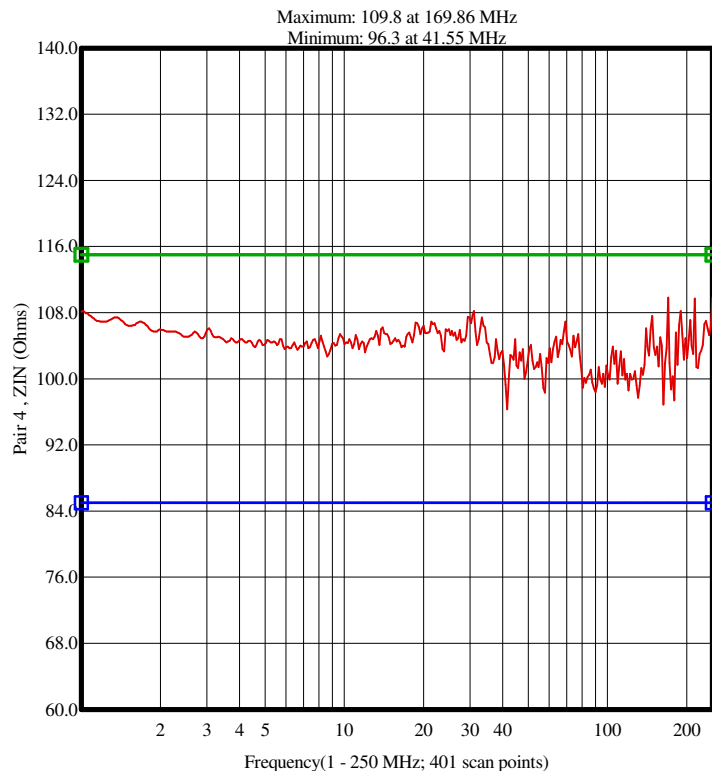
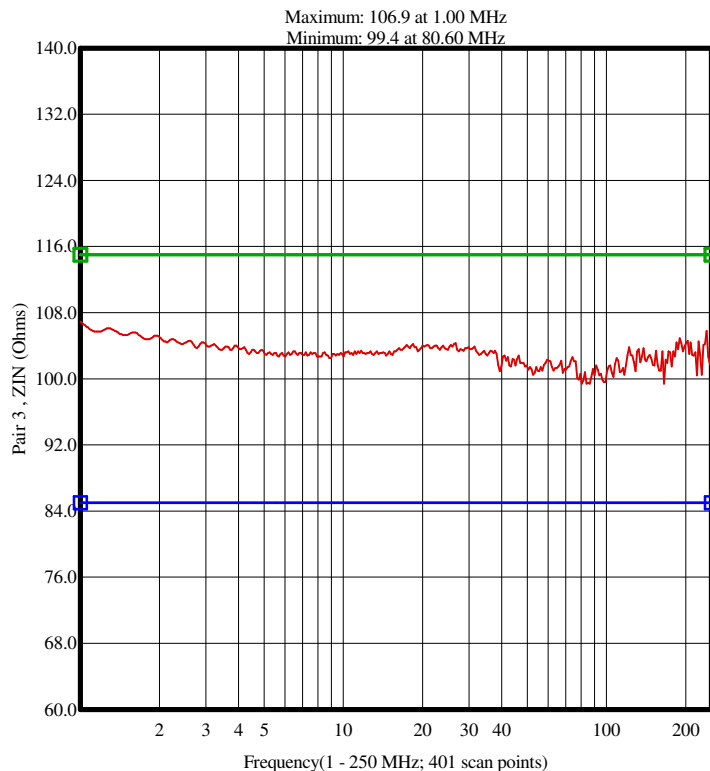
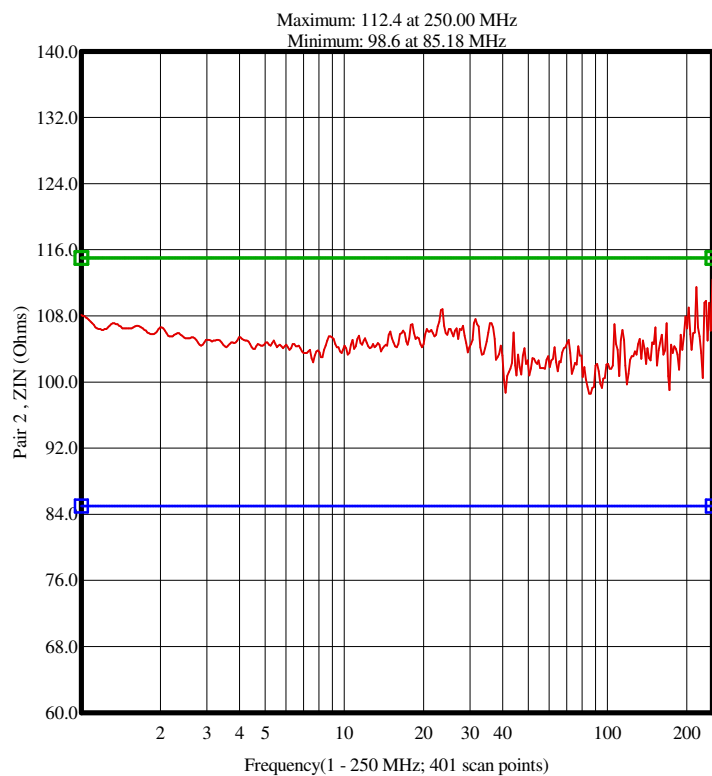
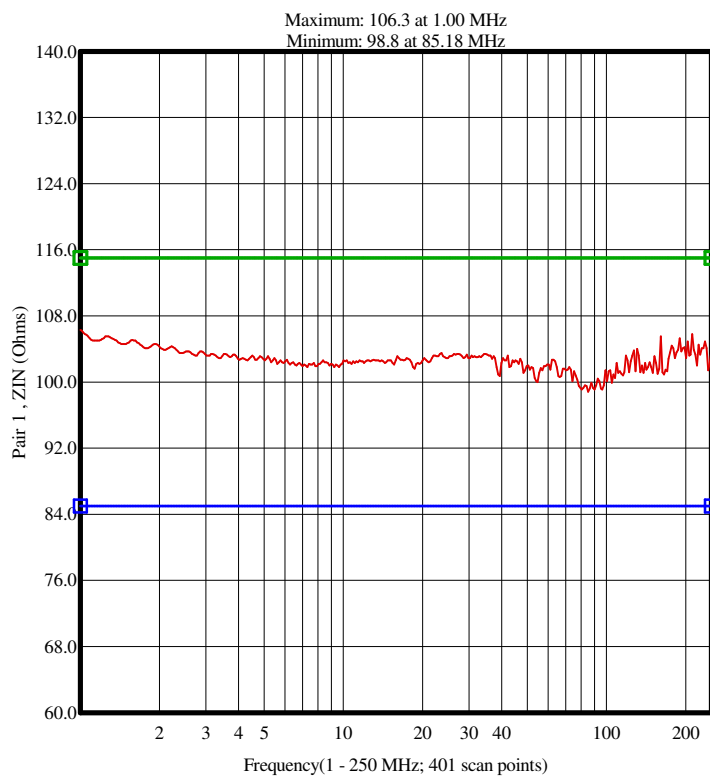
N/A = Not Applicable.
--- = Disable/Bypassed Pair.

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xxx = No entry.

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Summary and Graphic: Input Impedance (Zin)(Open/Short)

Pair [Position]	Specification		Measured(Ohms)		Margin (Ohms)		@ Frequency (MHz)		Test Result
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	
Pair 1 [4]	85.0	115.0	98.8	106.3	13.8	8.7	85.18	1.00	Passed
Pair 2 [5]	85.0	115.0	98.6	112.4	13.6	2.6	85.18	250.00	Passed
Pair 3 [6]	85.0	115.0	99.4	106.9	14.4	8.1	80.60	1.00	Passed
Pair 4 [7]	85.0	115.0	96.3	109.8	11.3	5.2	41.55	169.86	Passed



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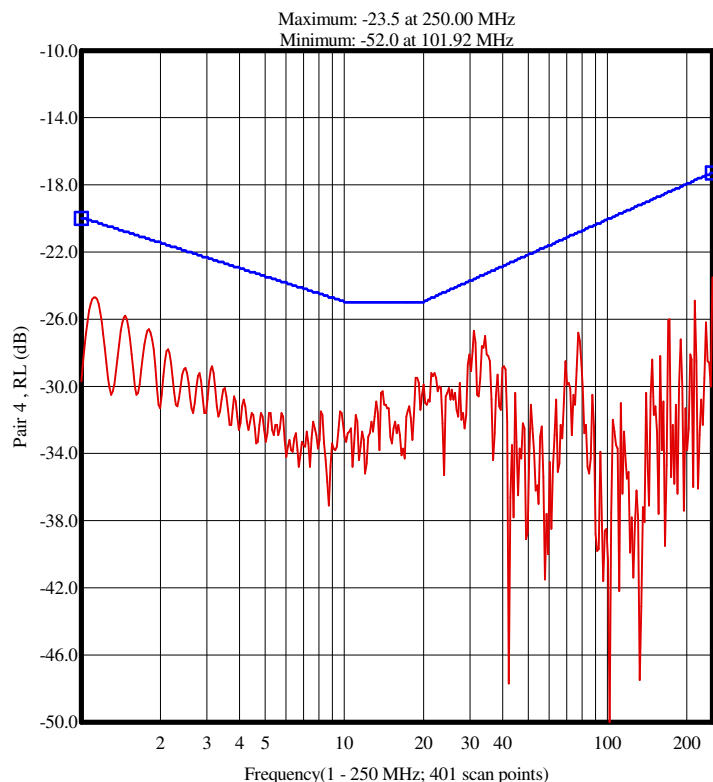
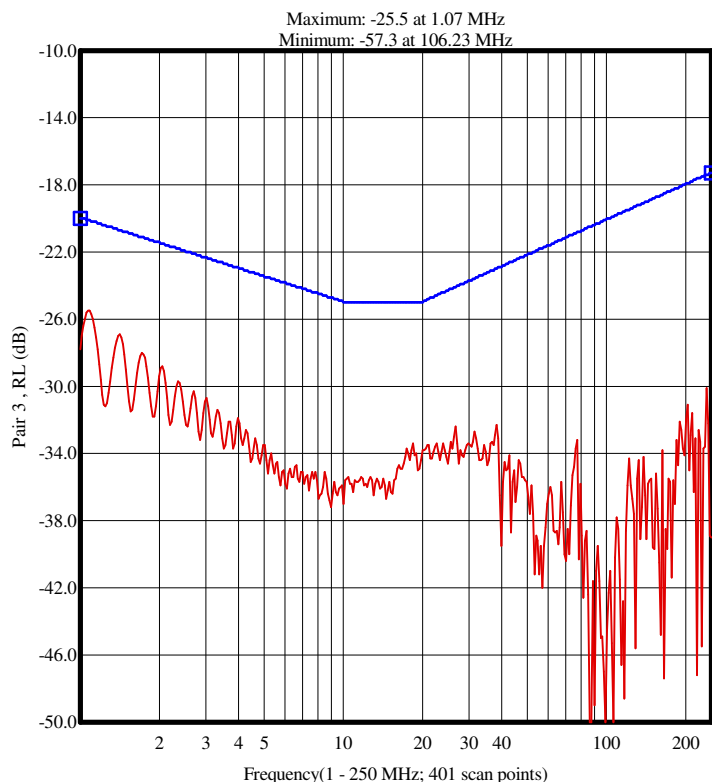
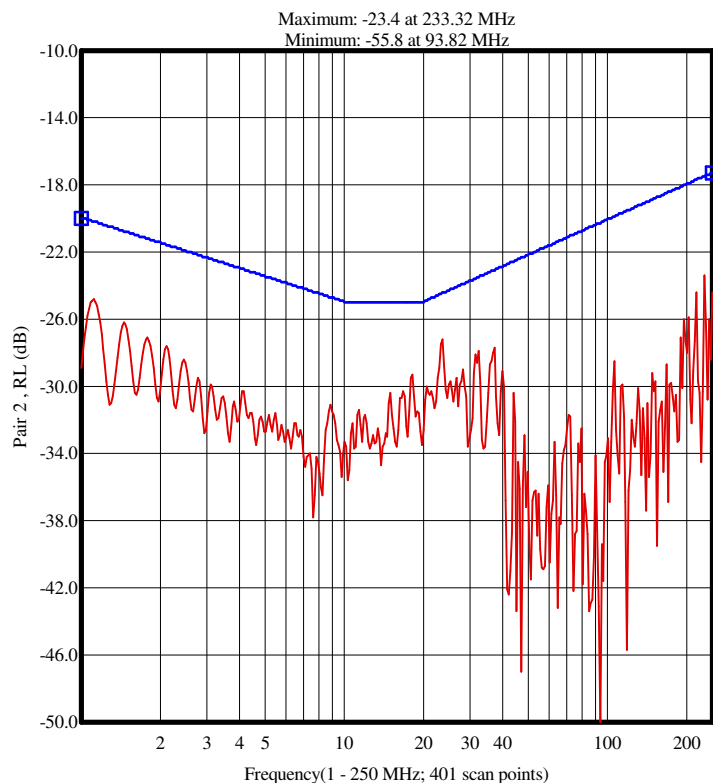
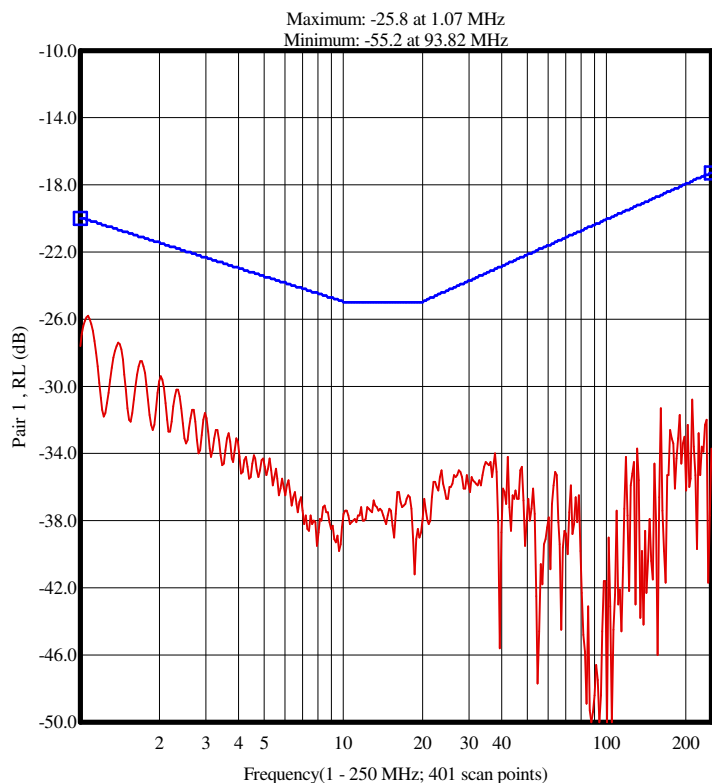
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Summary and Graphic: Return Loss (RL)

(Cat 6): $RL \geq 20+5*\text{Log}(f)$; $25; 25-7*\text{Log}(f/20)$; (Refer to manual)

Pair [Position]	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [4]	20.1	25.8	5.7	1.07	Passed
Pair 2 [5]	24.4	27.2	2.8	23.59	Passed
Pair 3 [6]	20.1	25.5	5.4	1.07	Passed
Pair 4 [7]	23.6	26.7	3.1	31.10	Passed



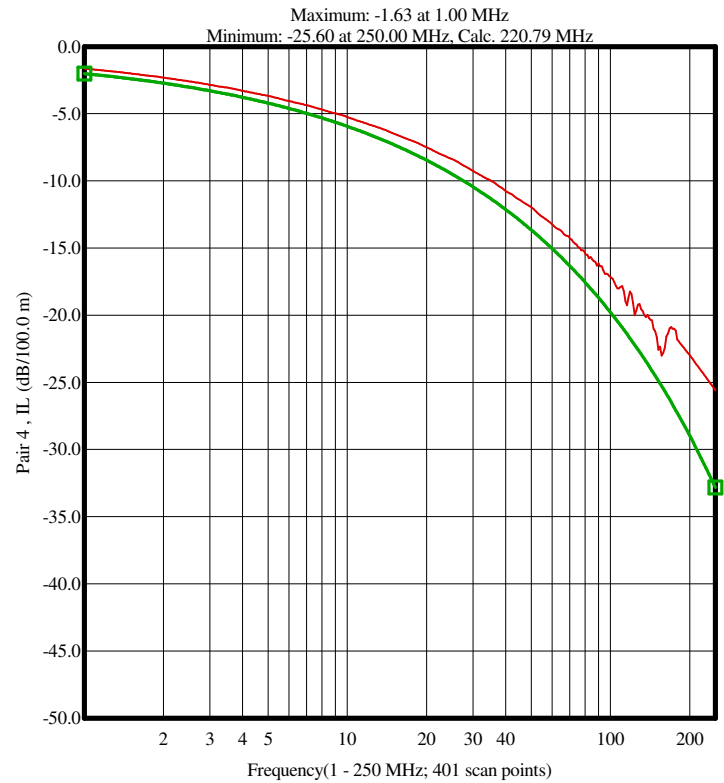
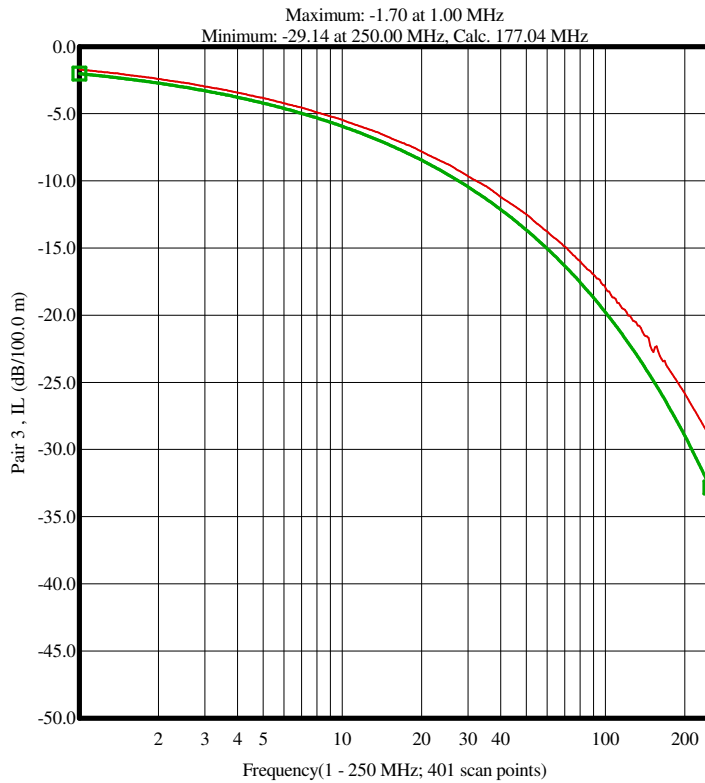
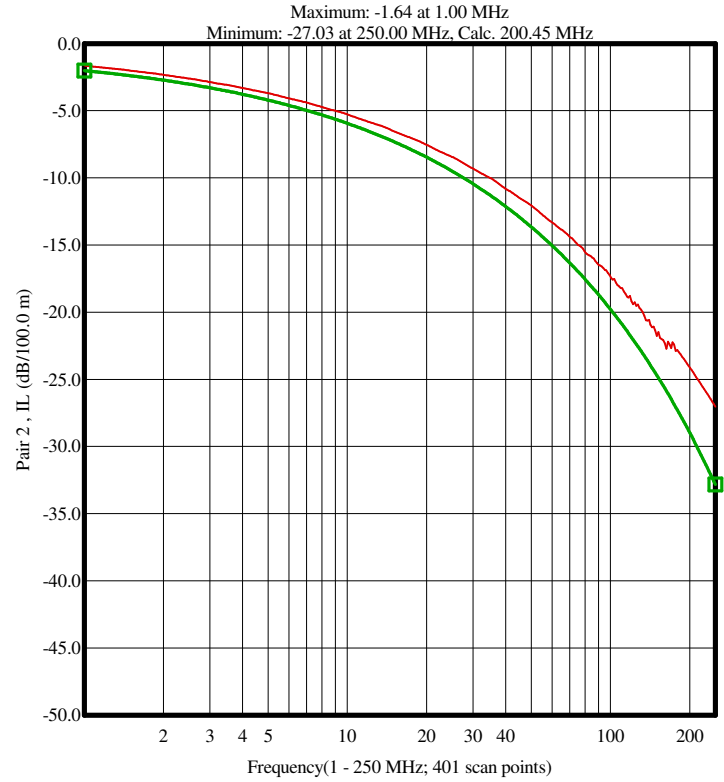
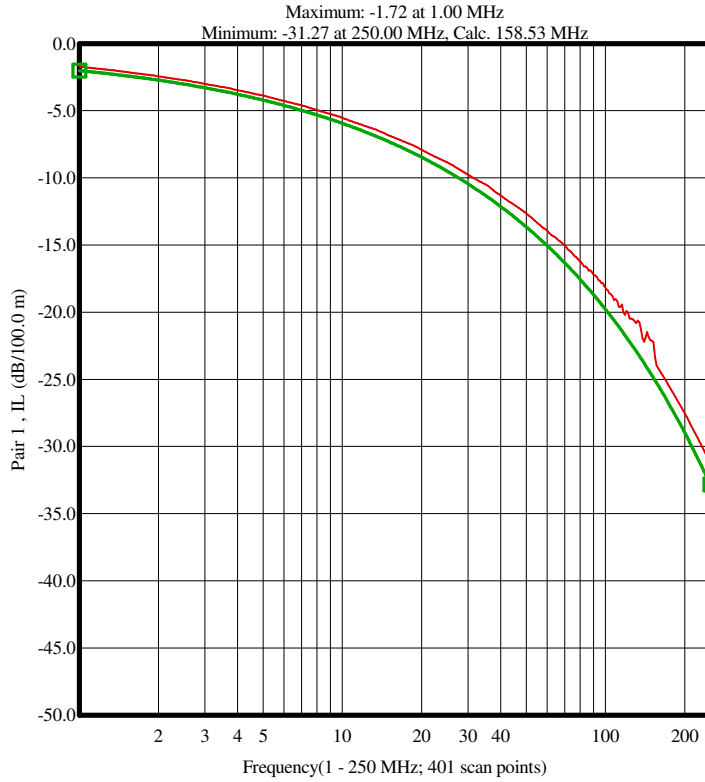
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Summary and Graphic: Insertion Loss (IL)(Curve Fit)@20C
 (Cat 6): $IL \leq (1.808 * \sqrt{f}) + (0.017 * f) + (0.2/\sqrt{f}) * \text{Stranded Factor}$ (Refer to manual)

Pair [Position]	Spec (Max)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [4]	2.11	1.83	0.28	1.12	Passed
Pair 2 [5]	2.11	1.75	0.36	1.12	Passed
Pair 3 [6]	2.11	1.81	0.30	1.12	Passed
Pair 4 [7]	2.07	1.69	0.38	1.06	Passed



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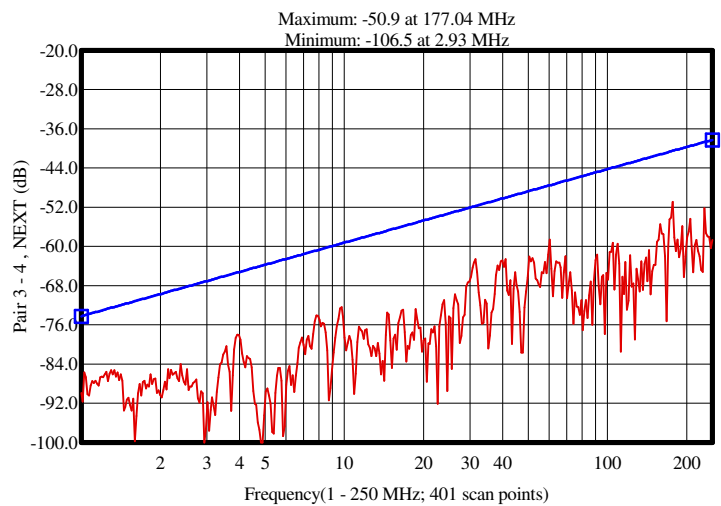
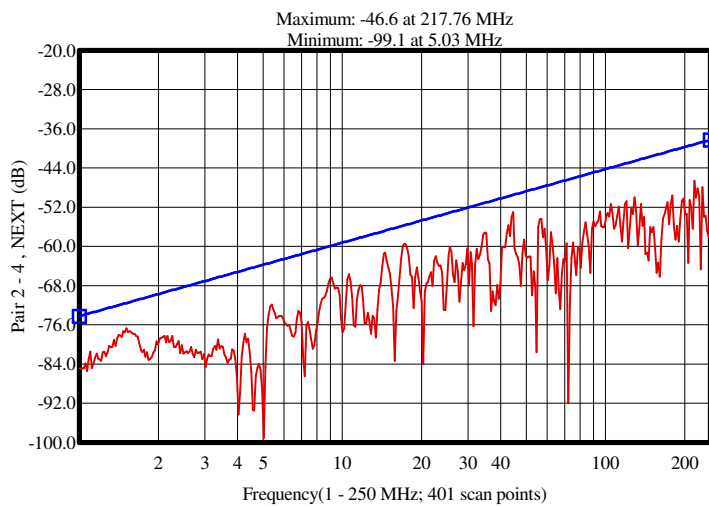
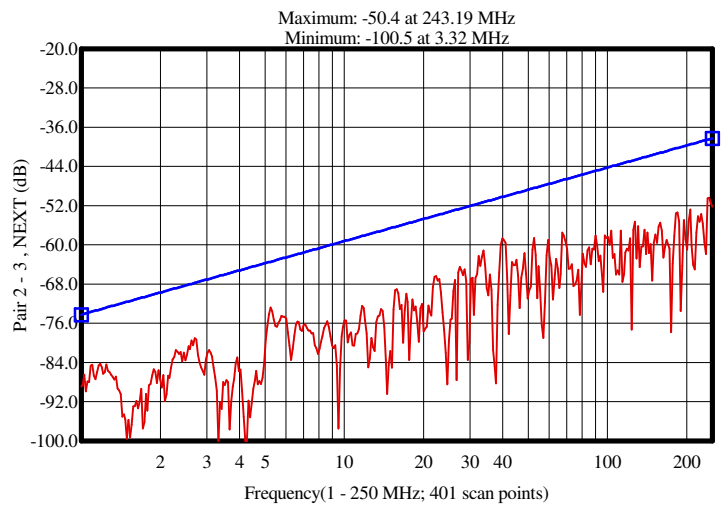
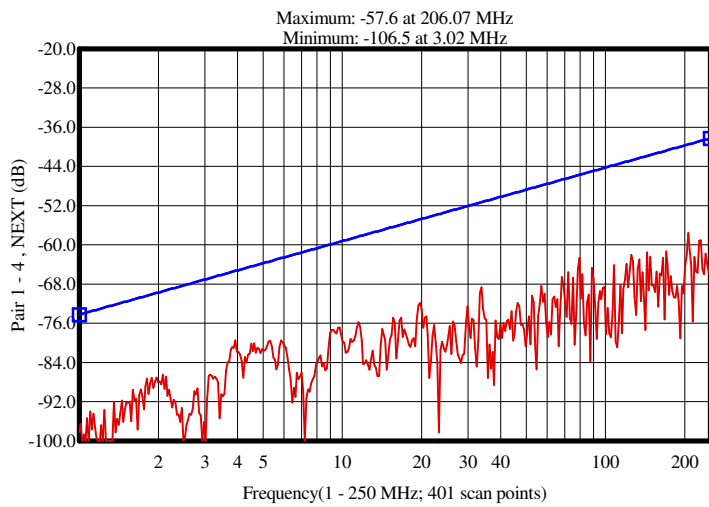
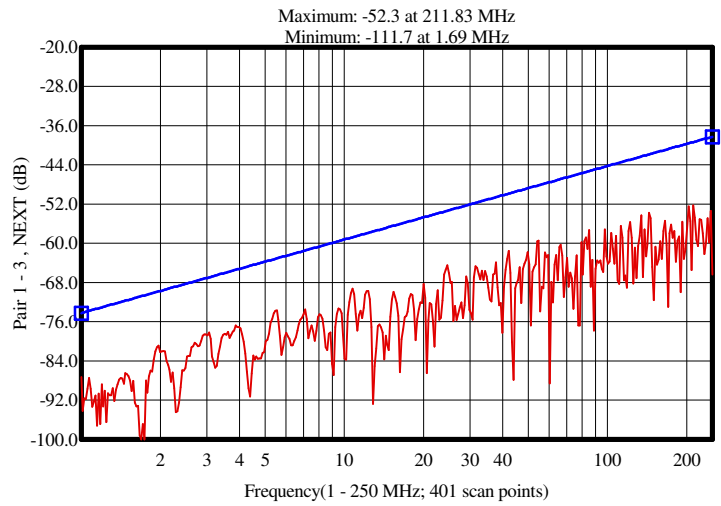
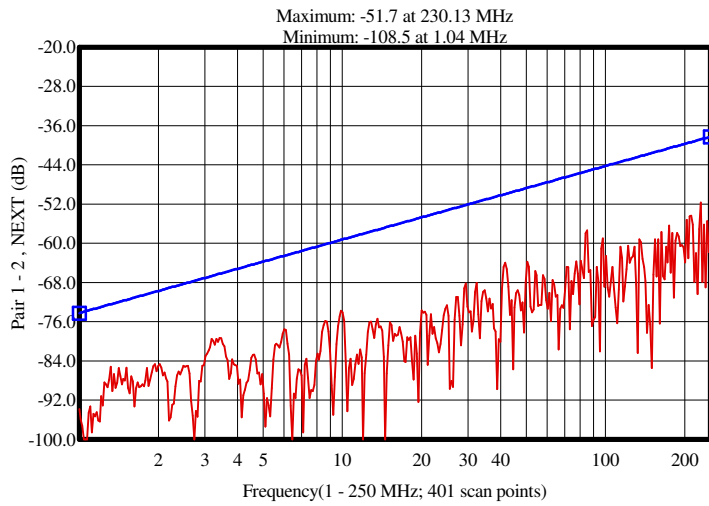
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Summary and Graphic: Near End Crosstalk Loss (NEXT)

(Cat 6): NEXT $\geq 44.3 - 15 * \text{Log}(f/100)$

Pair [Position]	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 - 2	45.3	57.4	12.1	85.18	Passed
Pair 1 - 3	58.8	69.3	10.5	10.74	Passed
Pair 1 - 4	65.3	79.5	14.2	3.92	Passed
Pair 2 - 3	50.2	58.7	8.5	39.87	Passed
Pair 2 - 4	49.5	53.0	3.5	44.52	Passed
Pair 3 - 4	40.5	50.9	10.4	177.04	Passed



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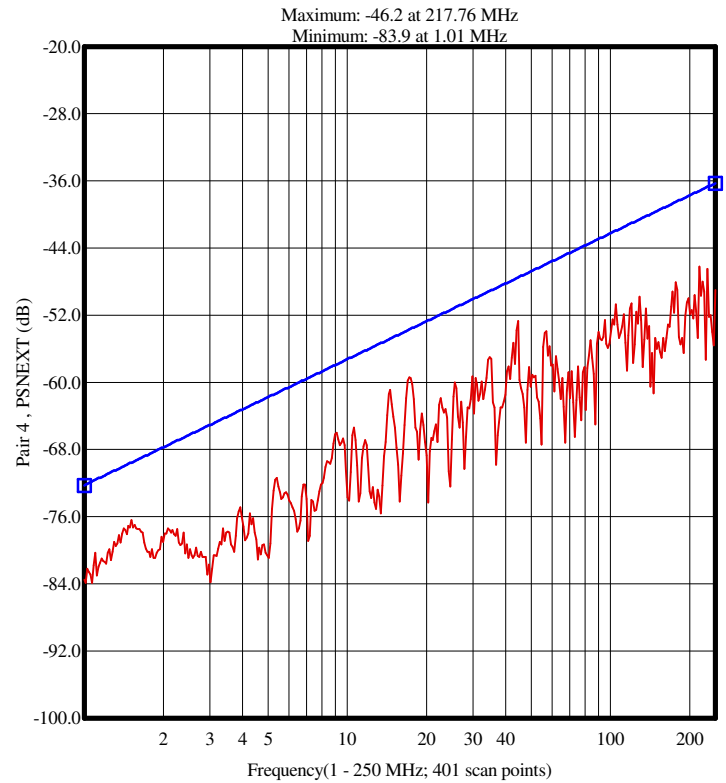
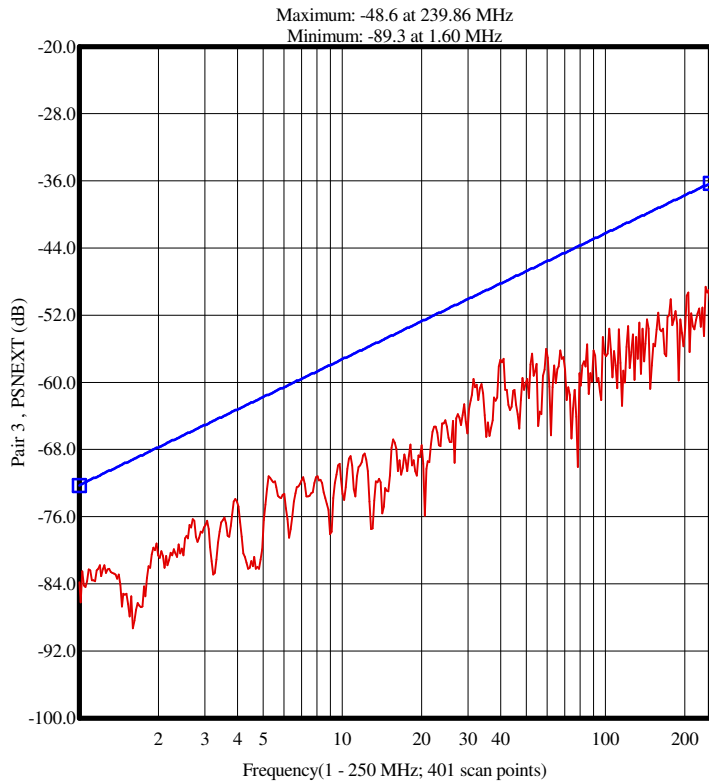
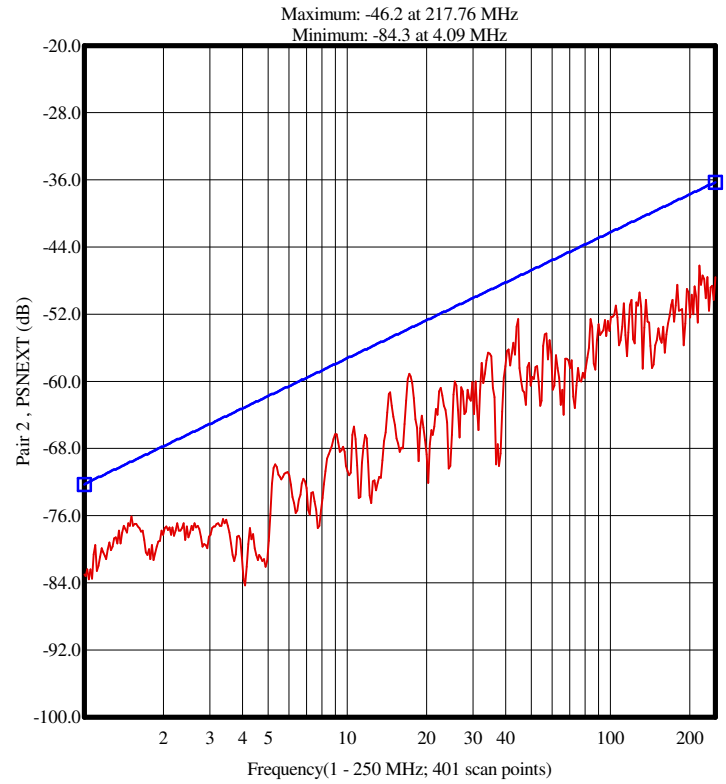
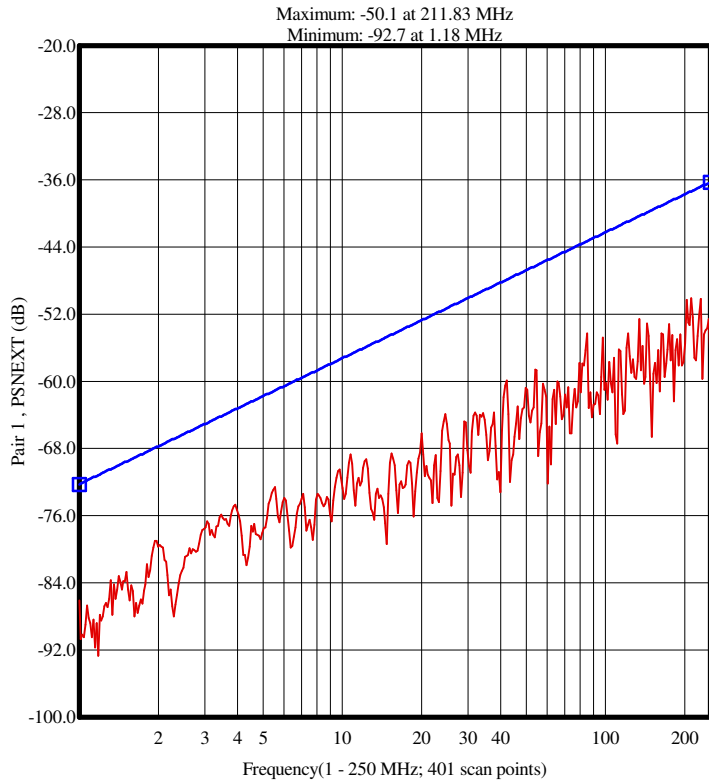
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Summary and Graphic: Power Sum NEXT(PSNEXT)

(Cat 6):PS NEXT >=42.3 - 15 * Log(f/100)

Pair [Position]	Spec (Min)(dB)	Measured(dB)	Margin (dB)	@ Frequency (MHz)	Test Result
Pair 1 [4]	43.3	54.3	11.0	85.18	Passed
Pair 2 [5]	47.5	52.6	5.1	44.52	Passed
Pair 3 [6]	48.2	57.3	9.1	39.87	Passed
Pair 4 [7]	47.5	52.7	5.2	44.52	Passed



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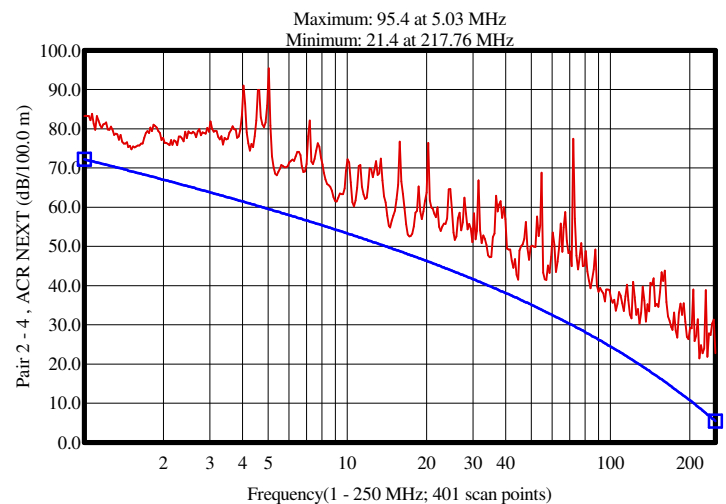
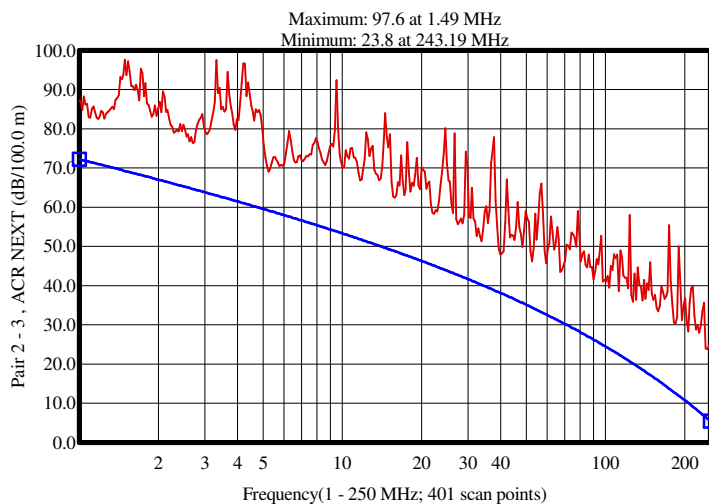
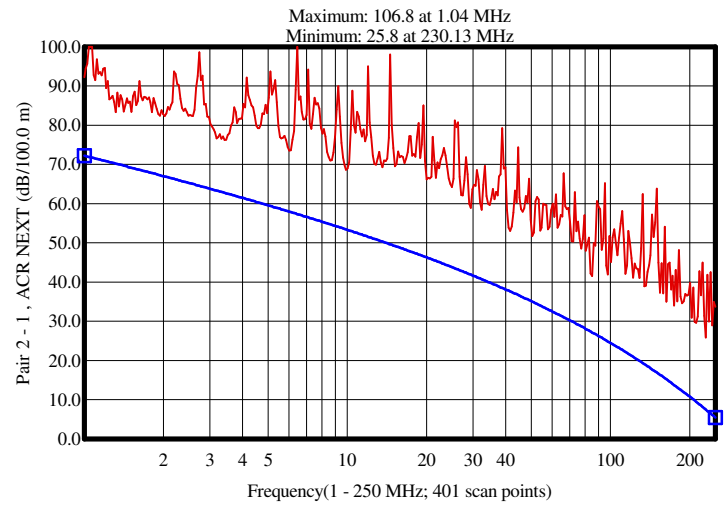
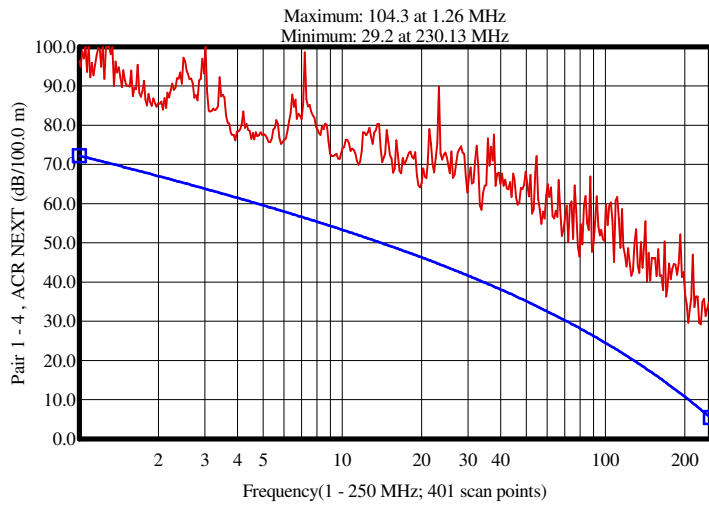
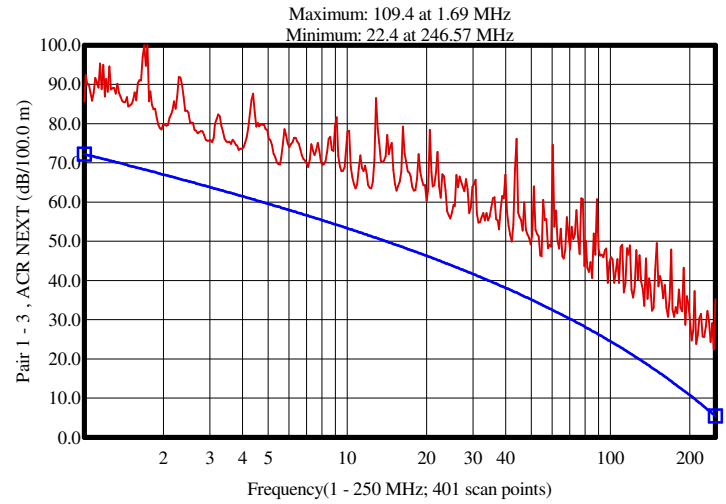
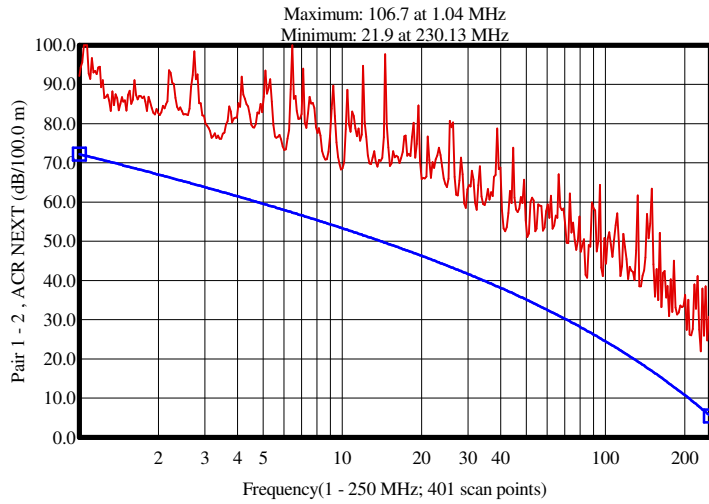
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Summary and Graphic: ATT to NEXT Ratio (ACR)

(Formula): $ACR(next) \geq (1.000 * NEXT Formula) - (1.000 * IL Formula) + 0.000$ (Refer to manual)

Pair [Position]	Spec (Min)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 - 2	70.2	83.2	13.0	1.32	Passed
Pair 1 - 3	58.8	69.7	10.9	5.46	Passed
Pair 1 - 4	61.6	76.1	14.5	3.92	Passed
Pair 2 - 1	70.2	83.3	13.1	1.32	Passed
Pair 2 - 3	38.1	47.9	9.8	39.87	Passed
Pair 2 - 4	47.9	52.5	4.6	17.18	Passed



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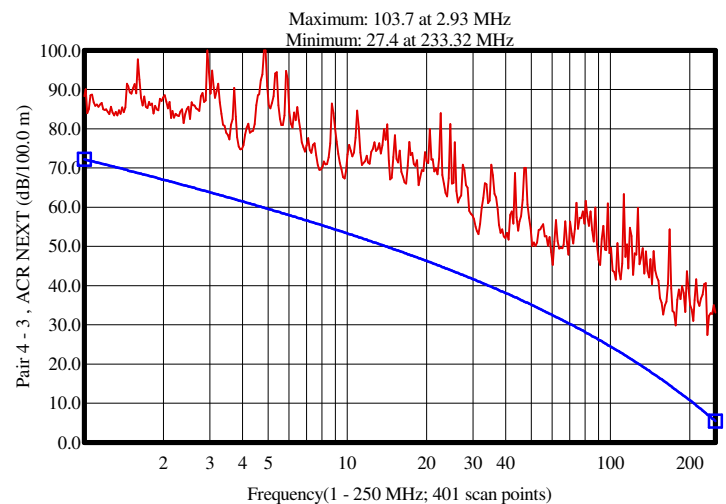
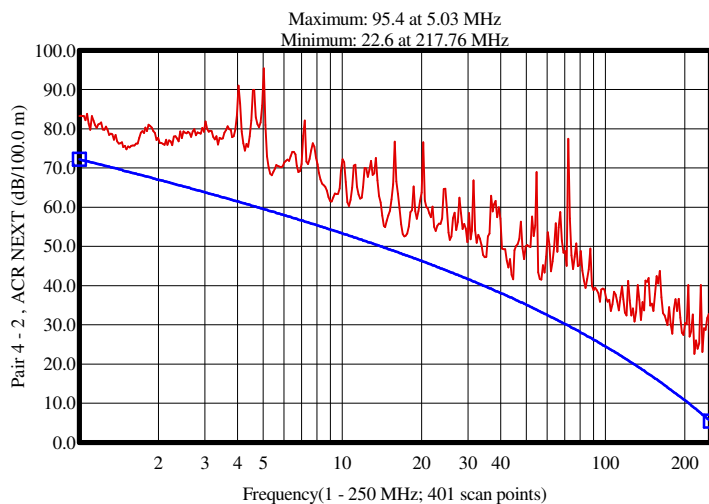
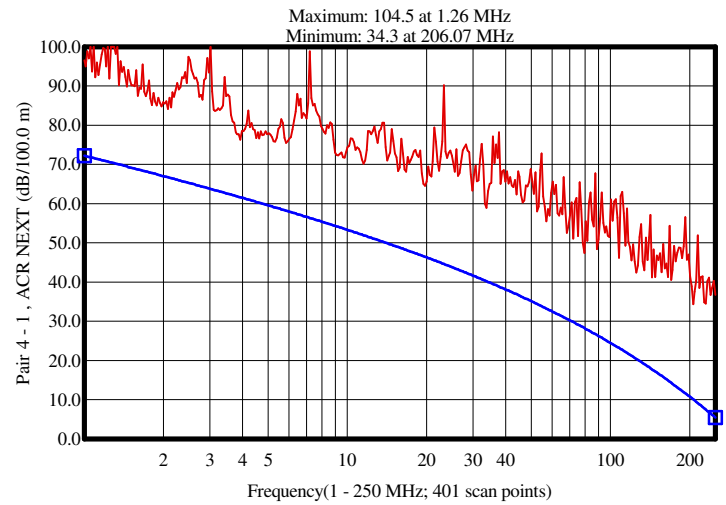
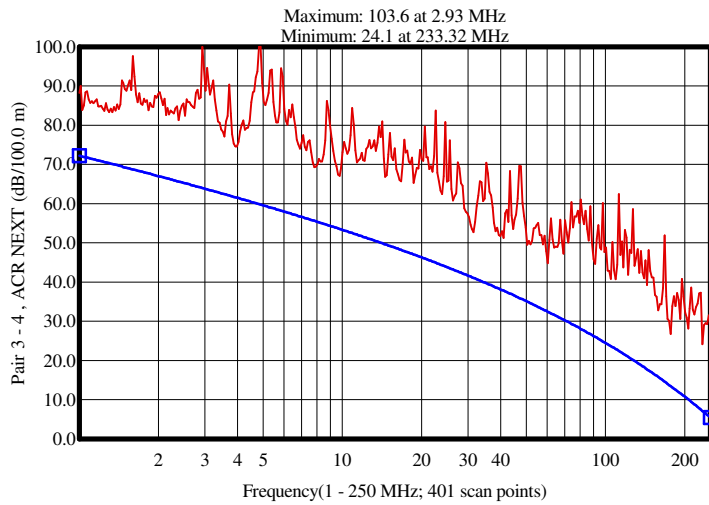
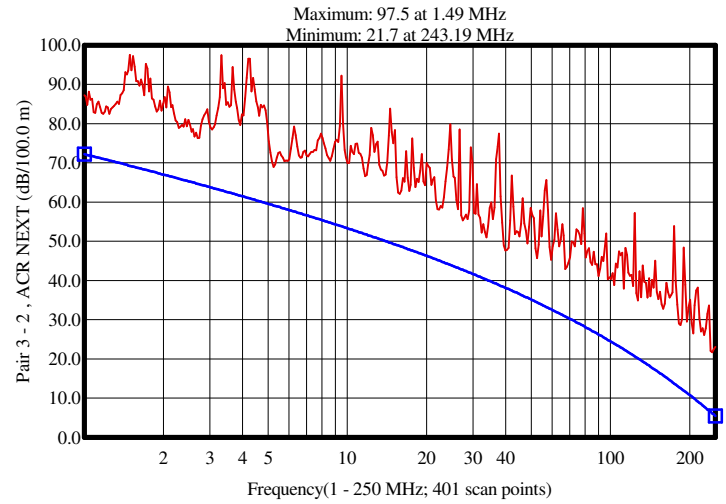
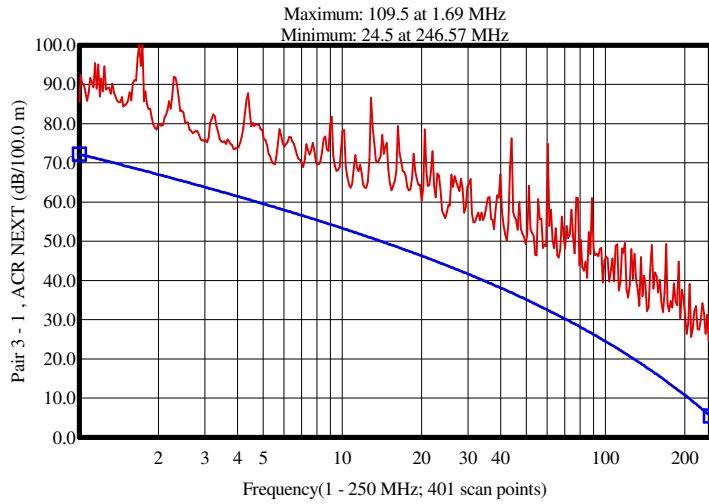
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(Formula): $ACR(next) \geq (1.000 * NEXT Formula) - (1.000 * IL Formula) + 0.000$ (Refer to manual)

Pair [Position]	Spec (Min)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 3 - 1	58.7	69.7	11.0	5.54	Passed
Pair 3 - 2	38.1	47.6	9.5	39.87	Passed
Pair 3 - 4	41.0	52.7	11.7	31.53	Passed
Pair 4 - 1	61.6	76.3	14.7	3.92	Passed
Pair 4 - 2	47.9	52.5	4.6	17.18	Passed
Pair 4 - 3	72.0	84.0	12.0	1.03	Passed



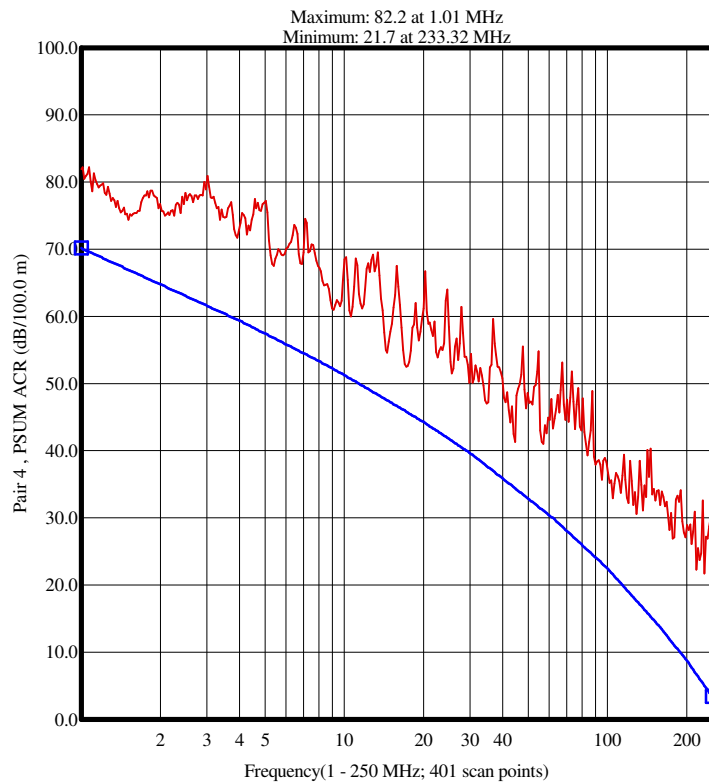
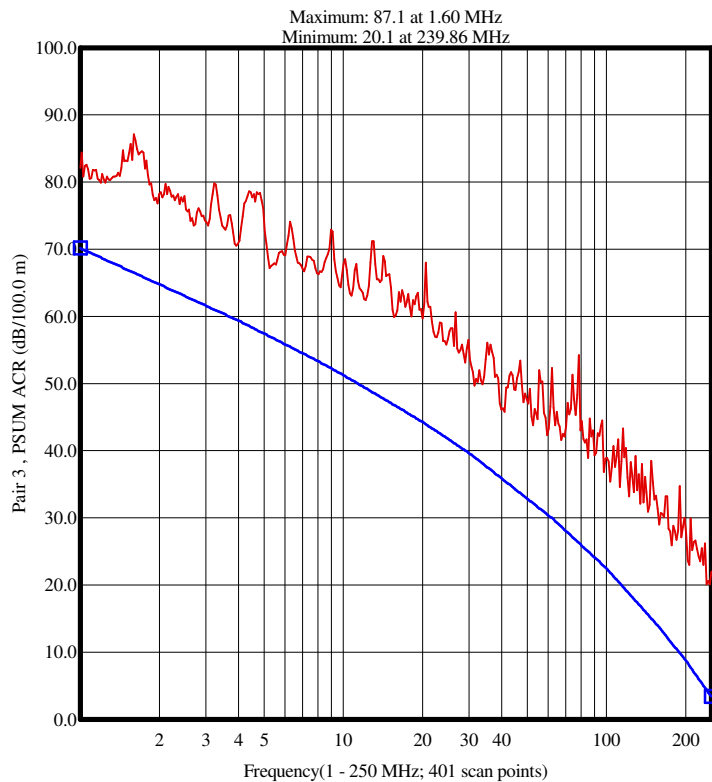
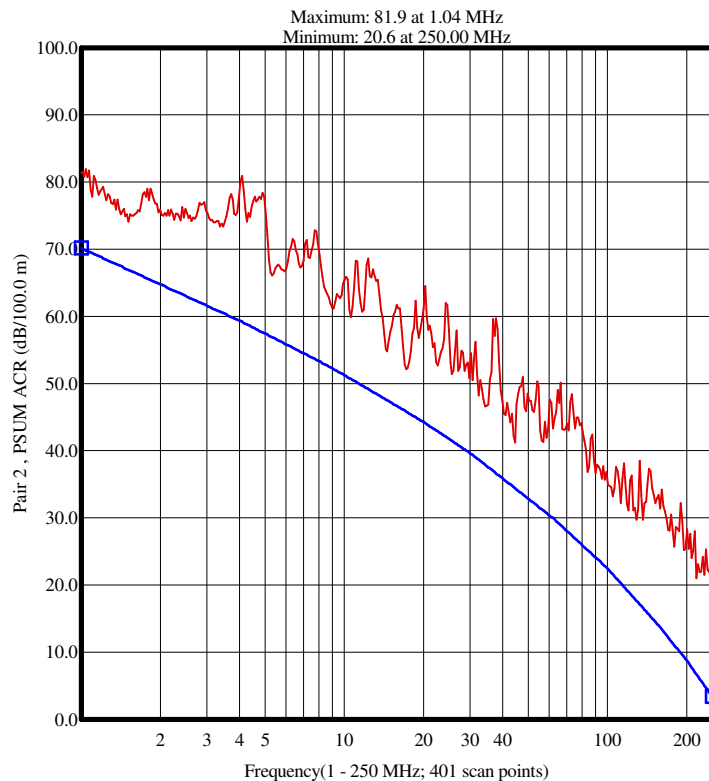
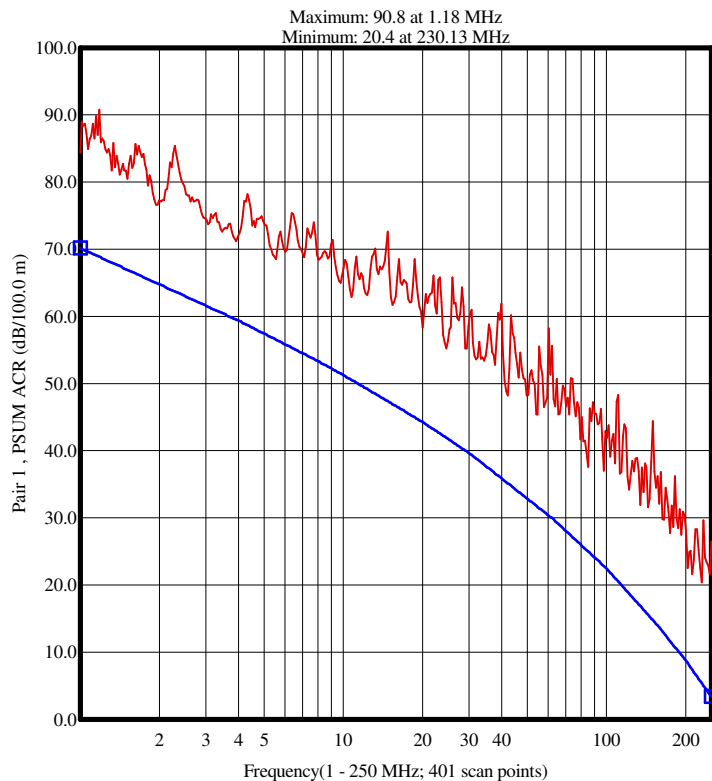
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Summary and Graphic: Power Sum ACR (PS ACR)

Pair [Position]	Spec (Min)(dB/100.0 m)	Measured(dB/100.0 m)	Margin (dB/100.0 m)	@ Frequency (MHz)	Test Result
Pair 1 [4]	65.0	76.6	11.6	1.94	Passed
Pair 2 [5]	45.8	52.1	6.3	17.18	Passed
Pair 3 [6]	57.0	67.2	10.2	5.24	Passed
Pair 4 [7]	45.8	52.5	6.7	17.18	Passed



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Detail Discrete Frequencies ---Input Impedance (Zin)(Ohms)(Open/Short)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Max Spec	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
Min Spec	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0
Pair 1 [4]	106.3	102.7	102.0	102.5	103.0	102.6	102.9	103.0	102.7	100.5
Pair 2 [5]	108.1	105.4	103.6	104.3	104.5	104.6	106.4	107.2	103.5	102.1
Pair 3 [6]	106.9	103.7	102.7	102.7	103.4	103.9	103.5	103.7	101.1	100.4
Pair 4 [7]	108.1	104.6	104.2	104.3	104.6	106.3	105.8	107.3	104.1	100.9

Continue:Input Impedance (Zin)(Ohms)(Open/Short)

Frequency	125.00	155.00	200.00	250.00						
Max Spec	115.0	115.0	115.0	115.0						
Min Spec	85.0	85.0	85.0	85.0						
Pair 1 [4]	103.0	101.8	103.1	103.9						
Pair 2 [5]	103.1	102.6	106.7	112.4						
Pair 3 [6]	102.8	102.7	104.2	101.9						
Pair 4 [7]	99.9	103.0	102.8	109.8						

Detail Discrete Frequencies ---Return Loss (RL)(dB)

(Cat 6): RL >= 20+5*Log(f); 25; 25-7*Log(f/20); (Refer to manual)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Min Spec	20.0	23.0	24.5	25.0	25.0	25.0	24.3	23.6	21.5	20.1
Pair 1 [4]	27.6	33.7	39.0	37.8	36.5	37.8	36.5	35.6	36.4	48.0
Pair 2 [5]	28.9	31.6	35.0	33.4	32.7	32.6	29.9	28.8	34.8	33.4
Pair 3 [6]	27.8	32.0	36.3	36.8	35.0	33.8	34.5	33.1	37.7	47.2
Pair 4 [7]	29.7	32.4	33.4	32.8	32.4	29.9	30.2	26.9	33.7	39.6

Continue:Return Loss (RL)(dB)

Frequency	200.00	250.00								
Min Spec	18.0	17.3								
Pair 1 [4]	35.7	33.7								
Pair 2 [5]	27.9	24.4								
Pair 3 [6]	32.3	39.0								
Pair 4 [7]	33.4	23.5								

Detail Discrete Frequencies ---Insertion Loss (IL)(dB/100.0 m)(Curve Fit)@20C

(Cat 6): IL <= (1.808 * SQRT(f))+(0.017 * f)+(0.2/SQRT(f)) * Stranded Factor (Refer to manual)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Max Spec	2.02	3.78	5.32	5.95	7.55	8.47	9.50	10.67	15.38	19.79
Pair 1 [4]	1.72	3.48	4.95	5.53	7.06	7.91	8.85	9.97	14.28	18.19
Pair 2 [5]	1.64	3.32	4.73	5.28	6.74	7.55	8.45	9.51	13.60	17.36
Pair 3 [6]	1.70	3.43	4.89	5.47	6.98	7.82	8.75	9.85	14.09	17.95
Pair 4 [7]	1.63	3.30	4.70	5.25	6.70	7.50	8.39	9.46	13.55	17.16

Continue:Insertion Loss (IL)(dB/100.0 m)(Curve Fit)@20C

Frequency	125.00	155.00	200.00	250.00						
Max Spec	22.35	25.16	28.98	32.84						
Pair 1 [4]	20.49	23.58	27.55	31.27						
Pair 2 [5]	19.47	21.95	24.12	27.03						
Pair 3 [6]	20.17	22.37	25.85	29.14						
Pair 4 [7]	19.73	22.58	23.00	25.60						

Detail Discrete Frequencies ---Near End Crosstalk Loss (NEXT)(dB)

(Cat 6): NEXT >=44.3 - 15 * Log(f/100)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Min Spec	74.3	65.2	60.7	59.3	56.2	54.7	53.3	51.8	47.3	44.3
Pair 1 - 2	93.8	86.6	83.1	74.1	78.8	73.7	73.1	77.2	71.1	65.0
Pair 1 - 3	87.3	77.2	74.7	82.6	74.5	68.3	66.5	66.2	67.7	63.6
Pair 1 - 4	98.2	81.8	84.0	79.4	82.1	73.2	80.1	75.2	74.2	74.5
Pair 2 - 3	88.9	85.7	81.6	75.7	69.8	77.7	78.8	71.6	68.8	58.5
Pair 2 - 4	84.9	90.0	76.2	76.9	74.8	71.6	66.7	68.0	58.6	54.9
Pair 3 - 4	89.9	78.5	74.7	77.8	76.5	79.2	74.4	63.1	67.3	66.3

N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = Measured value out of spec.
xxx = No entry.

*** = Measured value is invalid.

Continue:Near End Crosstalk Loss (NEXT)(dB)

Frequency	155.00	200.00	250.00							
Min Spec	41.4	39.7	38.3							
Pair 1 - 2	62.0	63.4	60.7							
Pair 1 - 3	64.0	57.6	66.4							
Pair 1 - 4	68.1	65.3	62.3							
Pair 2 - 3	58.3	60.6	52.2							
Pair 2 - 4	62.1	52.9	49.8							
Pair 3 - 4	58.9	58.8	58.7							

Detail Discrete Frequencies ---Power Sum NEXT(PSNEXT)(dB)

(Cat 6):PS NEXT >=42.3 - 15 * Log(f/100)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Min Spec	72.3	63.2	58.7	57.3	54.2	52.7	51.3	49.8	45.3	42.3
Pair 1 [4]	86.1	75.5	73.7	72.5	72.5	66.2	65.5	65.4	65.4	60.5
Pair 2 [5]	83.0	82.1	74.4	70.6	68.0	68.8	65.5	63.9	57.8	53.0
Pair 3 [6]	83.8	74.5	71.3	72.9	67.8	67.5	65.6	60.8	63.0	56.8
Pair 4 [7]	83.5	76.6	72.1	73.1	71.5	68.8	65.8	60.9	57.7	54.5

Continue:Power Sum NEXT(PSNEXT)(dB)

Frequency	155.00	200.00	250.00							
Min Spec	39.4	37.7	36.3							
Pair 1 [4]	58.7	55.9	57.8							
Pair 2 [5]	55.1	51.9	47.6							
Pair 3 [6]	55.0	53.9	51.2							
Pair 4 [7]	56.6	51.6	49.0							

Detail Discrete Frequencies ---ATT to NEXT Ratio (ACR)(dB/100.0 m)

(Formula): ACR(next) >= (1.000 * NEXT Formula) - (1.000 * IL Formula) + 0.000 (Refer to manual)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Min Spec	72.2	61.4	55.4	53.3	48.6	46.3	43.8	41.2	31.9	24.5
Pair 1 - 2	92.1	83.0	78.1	68.5	71.7	65.8	64.1	67.1	56.8	46.7
Pair 1 - 3	85.6	73.7	69.7	77.0	67.4	60.3	57.6	56.1	53.3	45.4
Pair 1 - 4	96.4	78.3	79.0	73.8	75.0	65.2	71.2	65.2	59.9	56.3
Pair 2 - 1	92.2	83.2	78.3	68.8	72.0	66.2	64.5	67.6	57.4	47.6
Pair 2 - 3	87.2	82.3	76.8	70.3	63.0	70.1	70.2	62.1	55.2	41.1
Pair 2 - 4	83.2	86.6	71.4	71.6	68.0	64.0	58.2	58.4	44.9	37.5
Pair 3 - 1	85.6	73.8	69.8	77.1	67.4	60.4	57.7	56.2	53.5	45.6
Pair 3 - 2	87.2	82.2	76.6	70.1	62.7	69.8	69.9	61.7	54.7	40.5
Pair 3 - 4	88.2	75.0	69.8	72.2	69.5	71.3	65.6	53.2	53.1	48.3
Pair 4 - 1	96.5	78.5	79.2	74.1	75.4	65.6	71.7	65.7	60.6	57.3
Pair 4 - 2	83.2	86.6	71.5	71.6	68.0	64.0	58.3	58.4	45.0	37.7
Pair 4 - 3	88.3	75.2	70.0	72.5	69.7	71.6	66.0	53.6	53.6	49.1

Continue:ATT to NEXT Ratio (ACR)(dB/100.0 m)

Frequency	155.00	200.00	250.00							
Min Spec	16.2	10.8	5.4							
Pair 1 - 2	38.4	35.8	29.4							
Pair 1 - 3	40.4	30.0	35.2							
Pair 1 - 4	44.4	37.7	31.1							
Pair 2 - 1	40.0	39.3	33.7							
Pair 2 - 3	36.3	36.4	25.2							
Pair 2 - 4	40.1	28.8	22.7							
Pair 3 - 1	41.6	31.7	37.3							
Pair 3 - 2	35.9	34.7	23.1							
Pair 3 - 4	36.5	32.9	29.5							
Pair 4 - 1	45.5	42.3	36.7							
Pair 4 - 2	39.4	29.9	24.2							
Pair 4 - 3	36.3	35.7	33.1							

Detail Discrete Frequencies ---Power Sum ACR (PS ACR)(dB/100.0 m)

Frequency	1.00	4.00	8.00	10.00	16.00	20.00	25.00	31.25	62.50	100.00
Min Spec	70.2	59.4	53.4	51.3	46.6	44.3	41.8	39.2	29.9	22.5
Pair 1 [4]	84.4	72.1	68.6	66.9	65.4	58.3	56.6	55.3	51.1	42.2
Pair 2 [5]	81.4	78.7	69.6	65.2	61.2	61.2	57.0	54.3	44.1	35.6
Pair 3 [6]	82.1	71.0	66.3	67.4	60.8	59.7	56.8	50.9	48.9	38.8
Pair 4 [7]	81.9	73.2	67.3	67.9	64.8	61.3	57.4	51.4	44.1	37.3

N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = Measured value out of spec.
xxx = No entry.

*** = Measured value is invalid.

Continue:Power Sum ACR (PS ACR)(dB/100.0 m)

Frequency	155.00	200.00	250.00						
Min Spec	14.2	8.8	3.4						
Pair 1 [4]	35.1	28.2	26.5						
Pair 2 [5]	33.0	27.8	20.6						
Pair 3 [6]	32.6	28.0	22.0						
Pair 4 [7]	34.0	28.6	23.4						

N/A = Not Applicable.
--- = Disable/Bypassed Pair.

* = Measured value out of spec.
xxx = No entry.

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