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BTB Connector

Test Report

For

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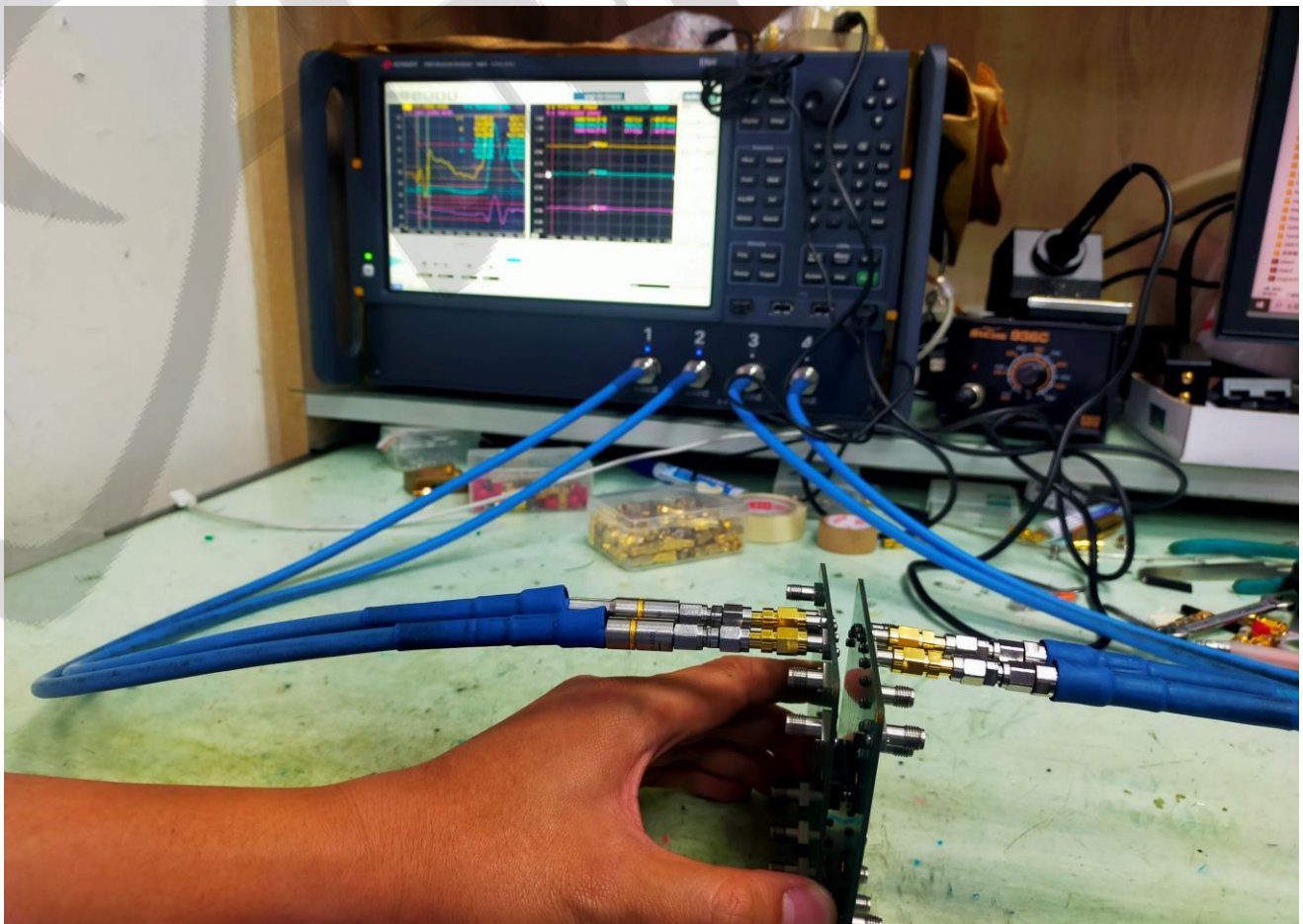
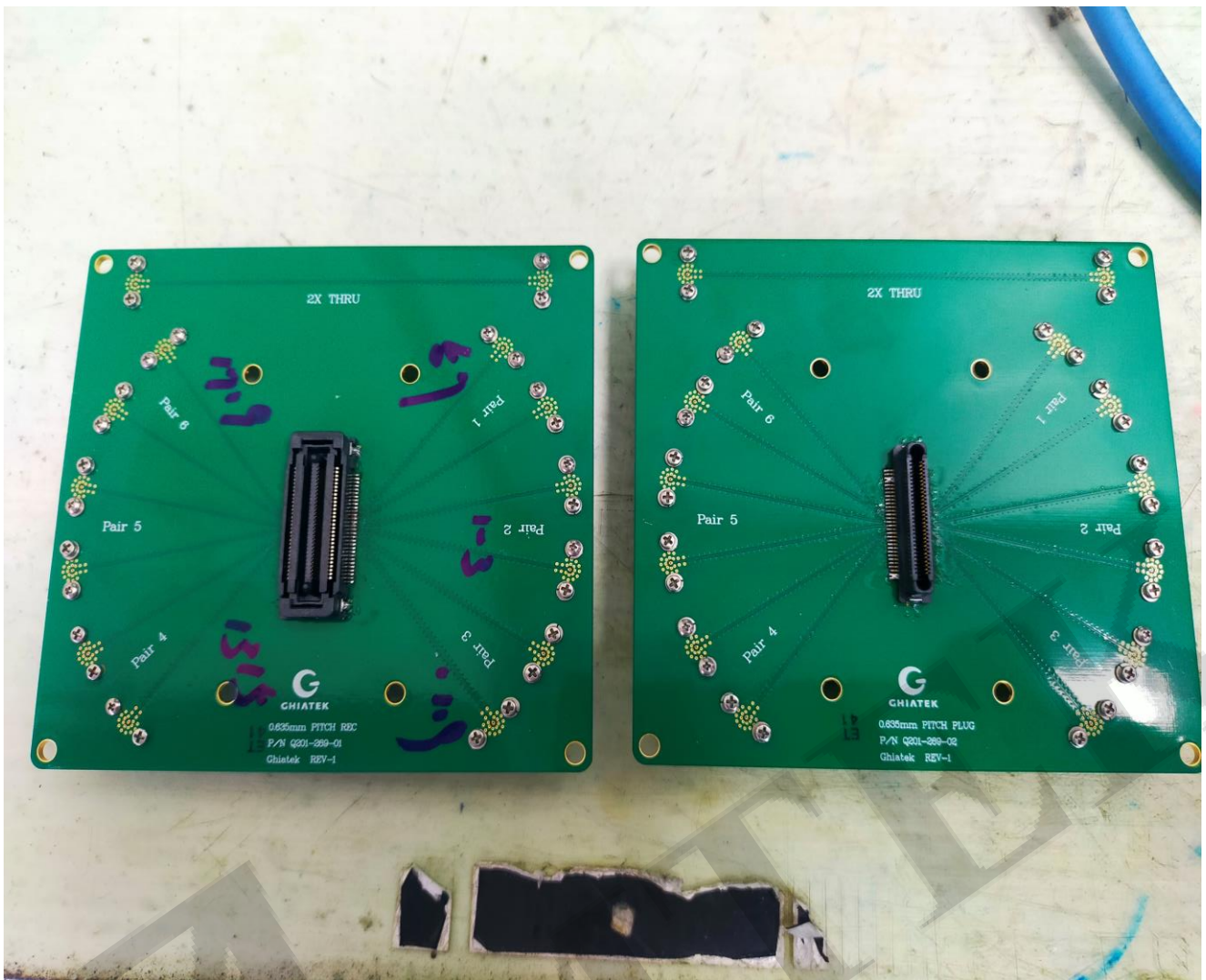
Amtek Technology Co., Ltd

Test Date:

2024/08/30 16:08

Approval:

Tester: Carlos





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Test Equipment List :

Equip.	P/N (S/N)	Description
NA	E5080B (MY59202152)	Freq(10 MHz~12. GHz)/ Points(1000)/ IFbw(30 KHz)/ Power(0 dBm)/ Z0(50 ohm) PortZ(42.5 ohm)/ THRU_Cal(Off)/ Deembed(G269_02_2.92_Tx.s2p , G269_02_2.92_Rx.s2p)
TDR	5080-TDR (MY59202152)	PortZ(42.5 ohm)/ Deembed(G269_02_2.92_Tx.s2p , G269_02_2.92_Rx.s2p)
EYE	ENA-TDR (MY59202152)	Cal_2X(Off)

Device Under Test (DUT) & Test Environment Information :

DUT Name:	BTB Connector	Specifications:	PCIe 3
DUT Bundle:	1	DUT Lot:	1
DUT Length(M):	0.02	Test Pair:	5 Pairs
Temperature(°C):	20	Humidity(%):	50
Note:	5BB061E66A-XXXXUX- 01 & BB061E55B-XXXXUX-01		

Test Result Summary:

Refer to

1	Insertion Loss	Spec.	Pass
2	Return Loss Sdd11	Spec.	Pass
3	Return Loss Sdd22	Spec.	Pass
4	NEXT	Spec.	Pass
5	Connector Impedance	Informative	Reference
6	IntraPair Skew	Informative	Reference

Test Result: Pass

Test Data Summary Page 1 of 1

Insertion Loss

Start Freq	End Freq	Spec Max	Spec Min	Pin_1,3	Pin_5,7	Pin_9,11	Pin_13,15	Pin_17,19
10	2500	--	-0.5	-0.494	-0.479	-0.486	-0.473	-0.441
2500	5000	--	-0.50→-2.50	-0.475	-0.472	-0.476	-0.454	-0.436
5000	12000	--	-2.50→-23.50	-0.646	-0.598	-0.653	-0.635	-0.651
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass	Pass

Return Loss Sdd11

Start Freq	End Freq	Spec Max	Spec Min	Pin_1,3	Pin_5,7	Pin_9,11	Pin_13,15	Pin_17,19
10	3000	-15	--	-17.397	-18.125	-17.992	-16.190	-19.383
3000	5000	-15.00→-5.00	--	-16.293	-18.356	-17.944	-18.893	-18.691
5000	12000	-1	--	-8.631	-10.908	-10.963	-12.085	-12.202
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass	Pass

Return Loss Sdd22

Start Freq	End Freq	Spec Max	Spec Min	Pin_1,3	Pin_5,7	Pin_9,11	Pin_13,15	Pin_17,19
10	3000	-15	--	-18.670	-18.878	-20.565	-16.542	-19.852
3000	5000	-15.00→-5.00	--	-17.230	-19.709	-20.725	-19.108	-20.274
5000	12000	-1	--	-10.503	-12.298	-13.194	-10.565	-11.963
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass	Pass

NEXT

Start Freq	End Freq	Spec Max	Spec Min	Pin_5,7-Pin_1,3	Pin_9,11-Pin_1,3	Pin_13,15-Pin_1,3	Pin_17,19-Pin_1,3
10	2500	-32	--	-44.550	-44.466	-60.098	-62.513
2500	5000	-26	--	-44.880	-44.898	-57.430	-50.374
5000	10000	-20	--	-41.572	-41.312	-40.833	-40.549
10000	12000	-10	--	-40.157	-39.304	-45.140	-37.704
MHz	MHz	dB	dB	Pass	Pass	Pass	Pass

Connector Impedance, Tr= 30 ps (10% 90%)

Pair Name	Spec Max	Spec Min	Max Value	Min Value	Differ.	Average	Status
Pin_1,3	95	75	111.30	82.98	28.32	97.14	Ref.
Pin_5,7	95	75	110.43	83.98	26.45	97.21	Ref.
Pin_9,11	95	75	110.02	83.10	26.92	96.56	Ref.
Pin_13,15	95	75	115.06	85.55	29.51	100.31	Ref.
Pin_17,19	95	75	109.62	84.31	25.31	96.97	Ref.
Unit :	Ohm	Ohm	Ohm	Ohm	Ohm	Ohm	--

IntraPair Skew, Tr= 30 ps (10% 90%)

Pair Name	Spec Max	Spec Min	Skew Val.	Status
Pin_1,3	5	--	0.757	Ref.
Pin_5,7	5	--	-0.293	Ref.
Pin_9,11	5	--	-0.618	Ref.
Pin_13,15	5	--	-1.408	Ref.
Pin_17,19	5	--	0.218	Ref.
Unit :	ps	ps	ps	--

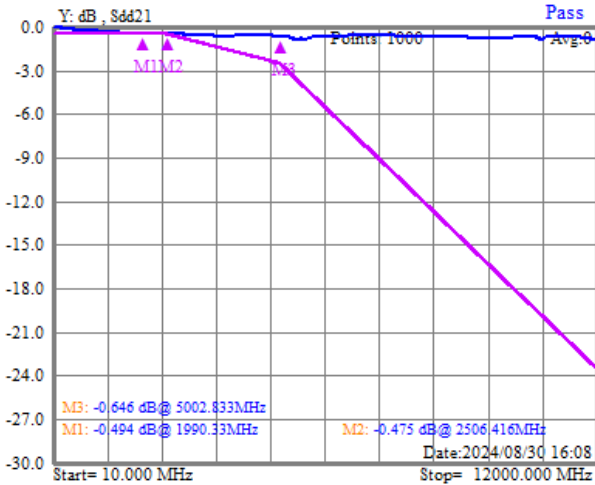


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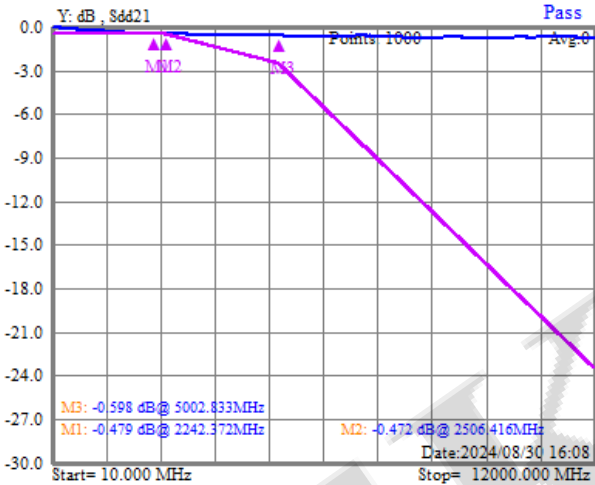
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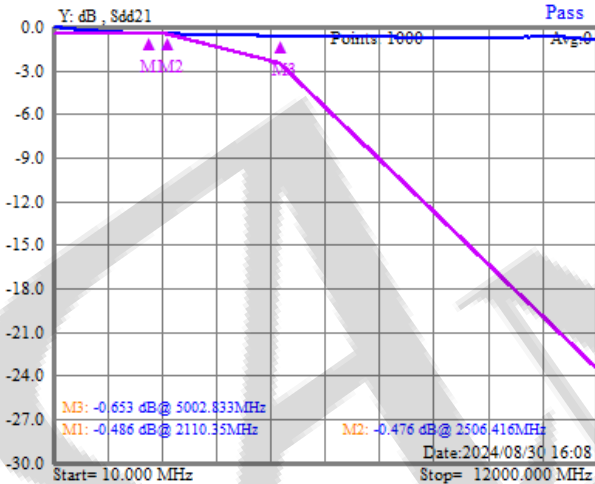
Insertion Loss (Pin_1,3)



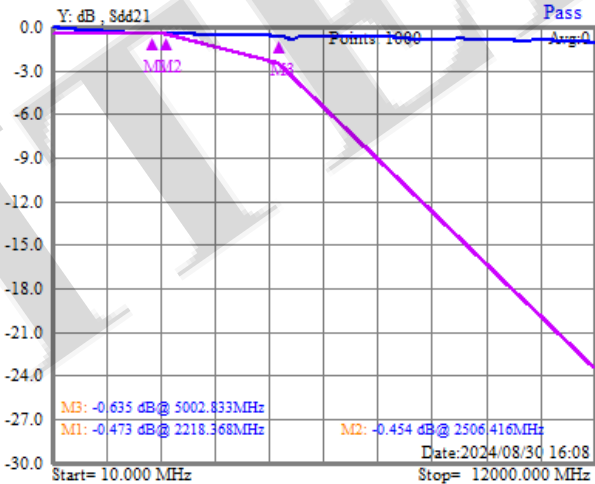
Insertion Loss (Pin_5,7)



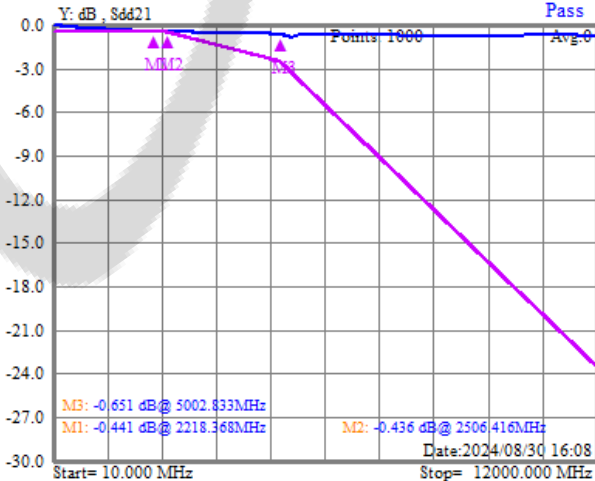
Insertion Loss (Pin_9,11)



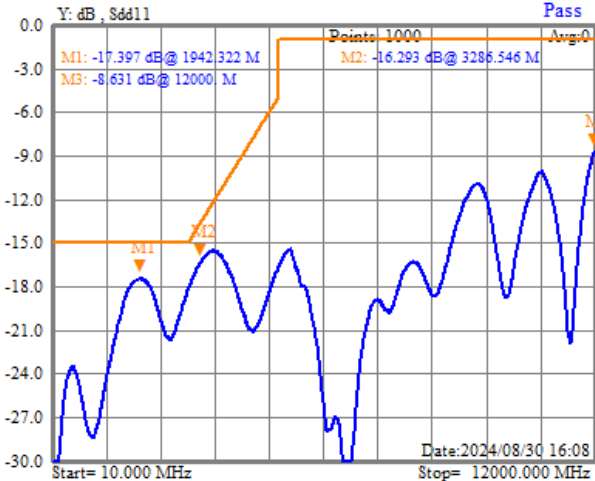
Insertion Loss (Pin_13,15)



Insertion Loss (Pin_17,19)



Return Loss_Sdd11 (Pin_1,3)

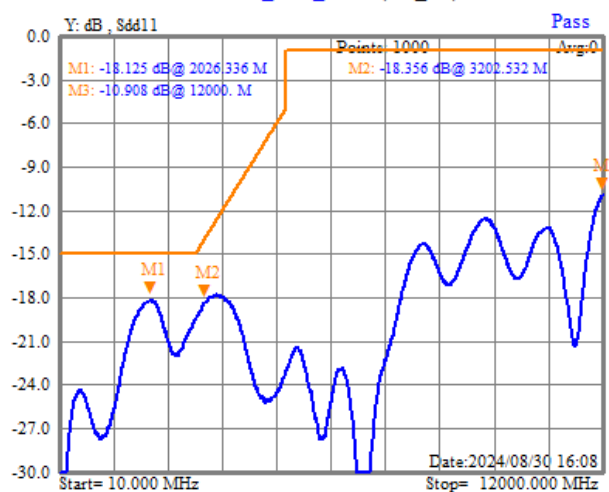




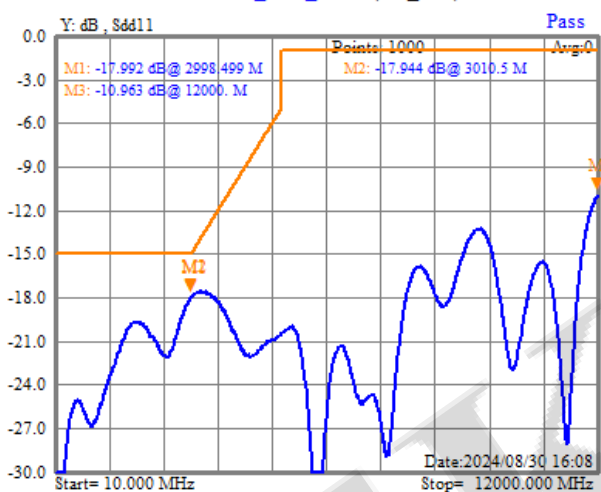
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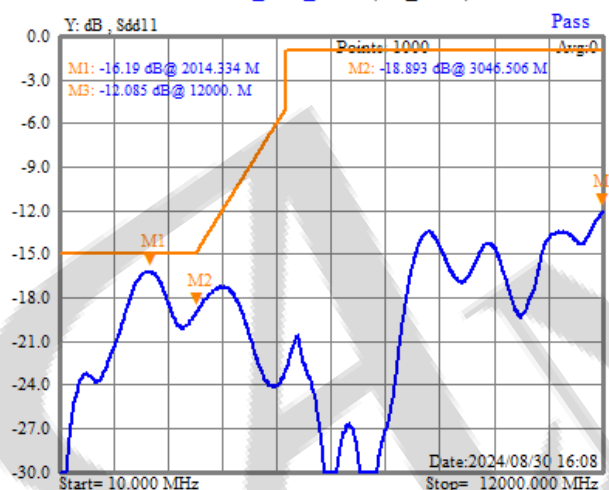
Return_Loss_Sdd11 (Pin_5,7)



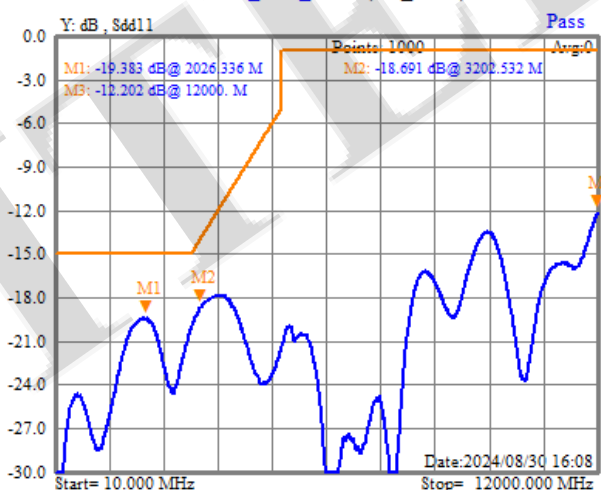
Return_Loss_Sdd11 (Pin_9,11)



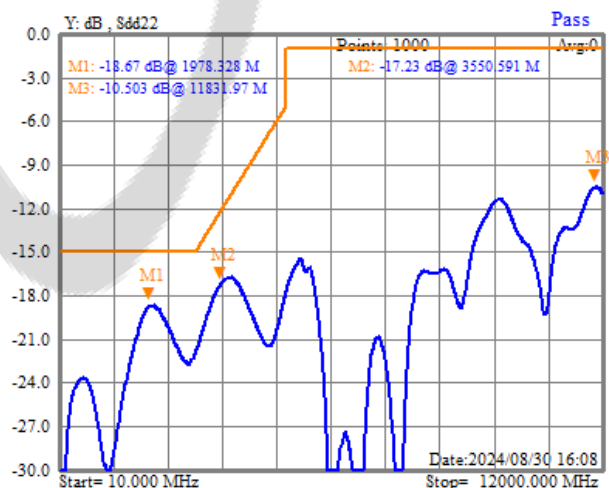
Return_Loss_Sdd11 (Pin_13,15)



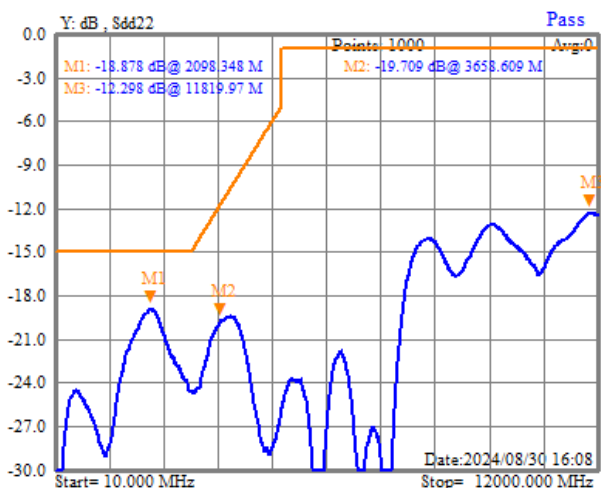
Return_Loss_Sdd11 (Pin_17,19)



Return_Loss_Sdd22 (Pin_1,3)



Return_Loss_Sdd22 (Pin_5,7)

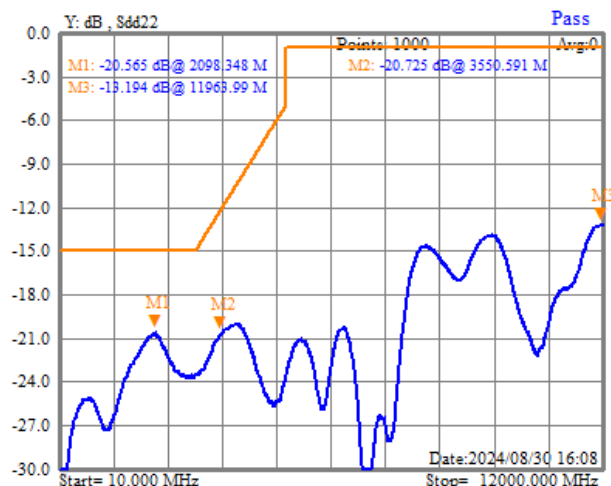




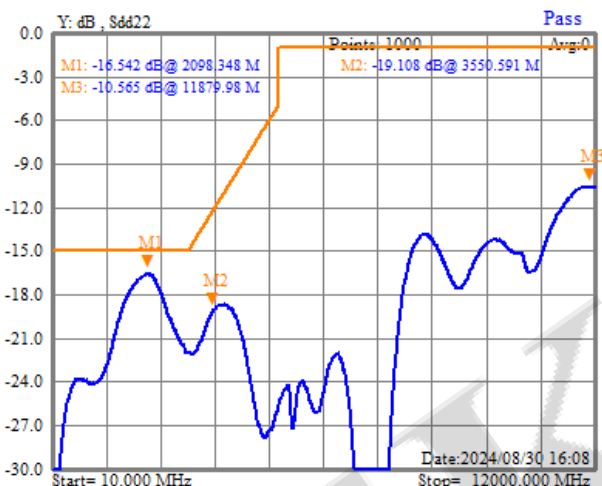
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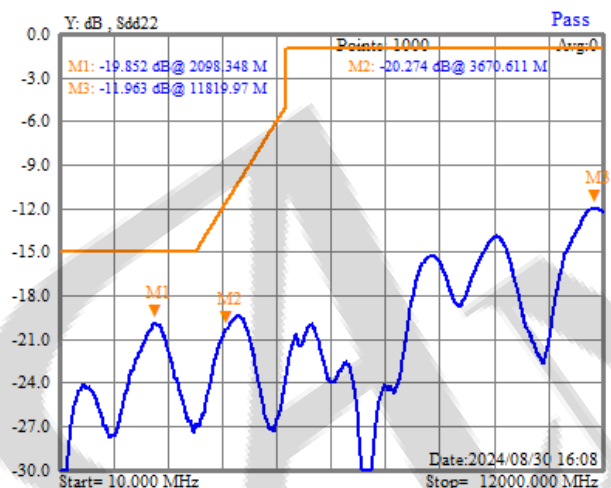
Return_Loss_Sdd22 (Pin_9,11)



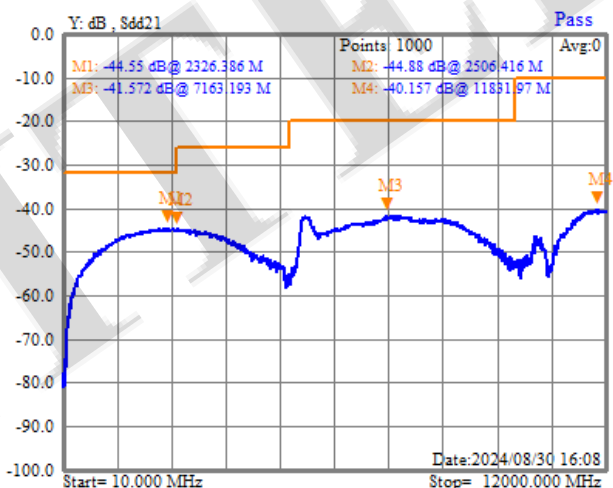
Return_Loss_Sdd22 (Pin_13,15)



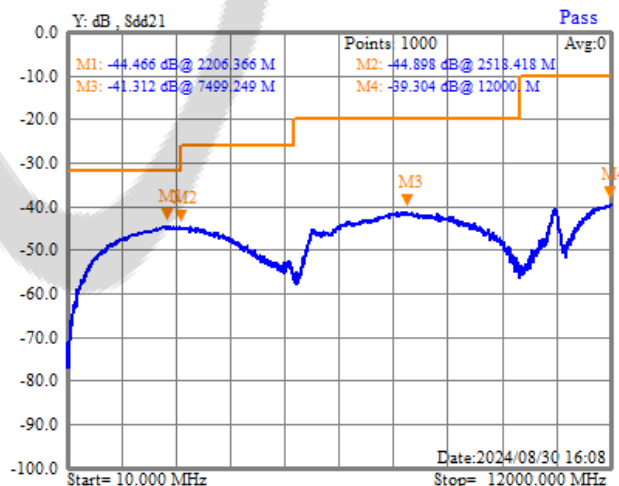
Return_Loss_Sdd22 (Pin_17,19)



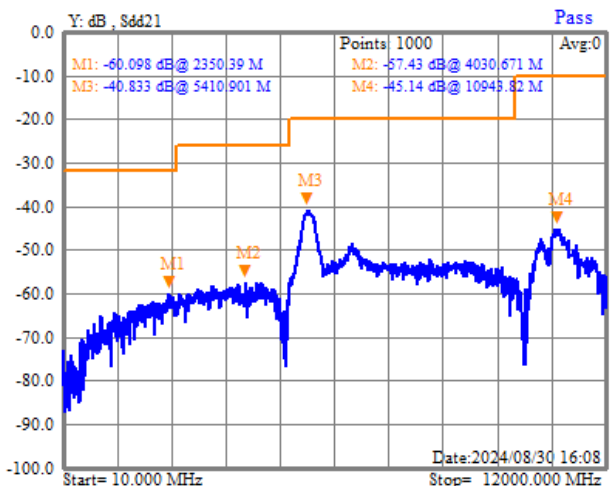
NEXT (Pin_5,7-Pin_1,3)



NEXT (Pin_9,11-Pin_1,3)



NEXT (Pin_13,15-Pin_1,3)



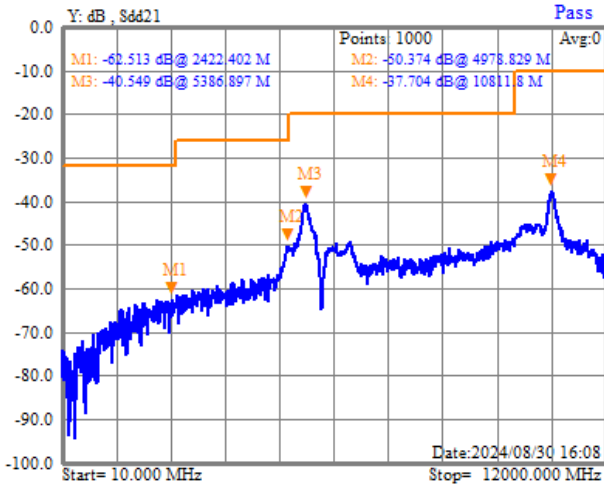


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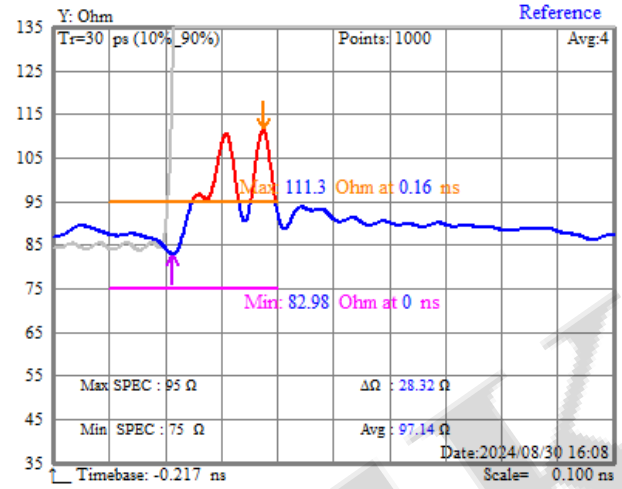
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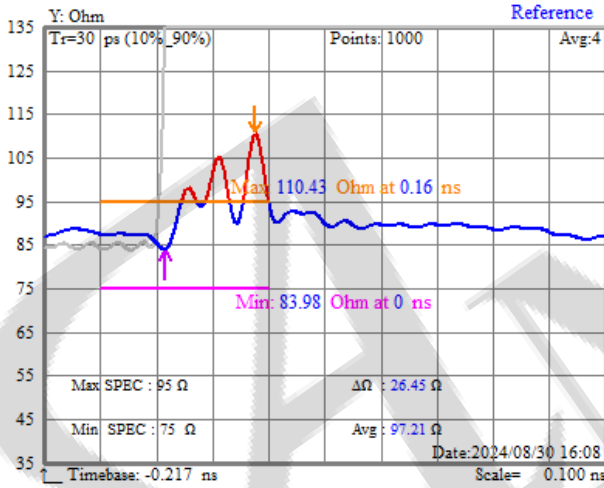
NEXT (Pin_17,19-Pin_1,3)



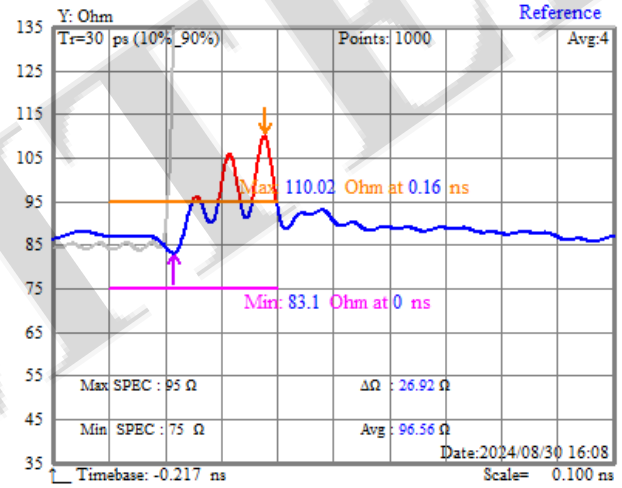
Connector_Impedance (Pin_1,3)



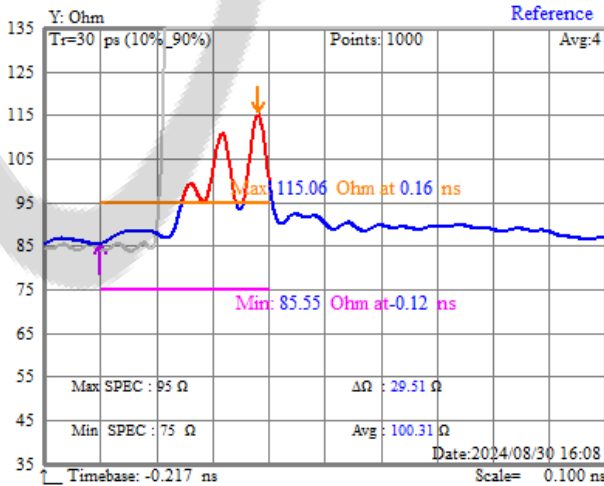
Connector_Impedance (Pin_5,7)



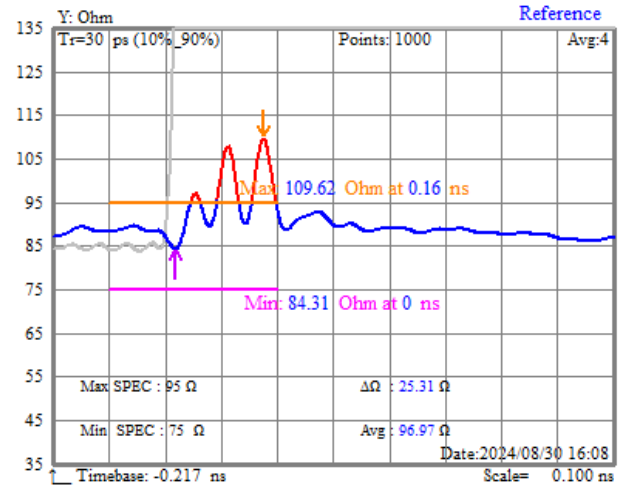
Connector_Impedance (Pin_9,11)



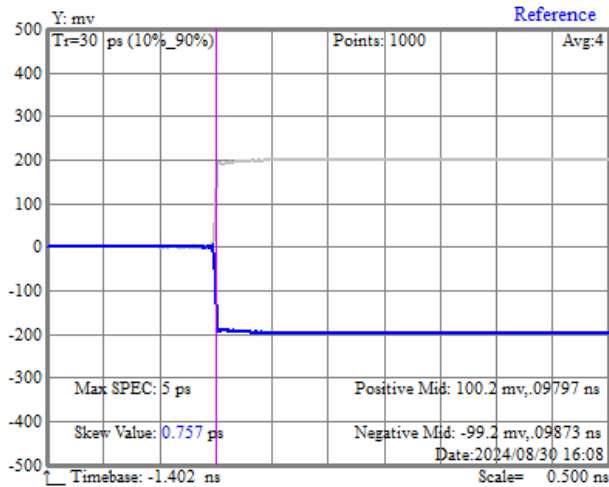
Connector_Impedance (Pin_13,15)



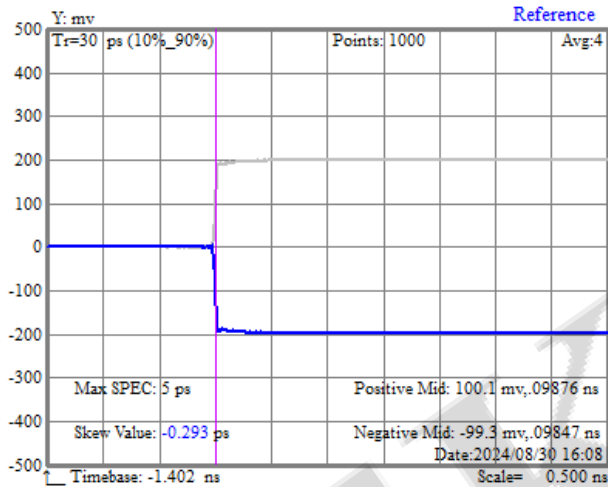
Connector_Impedance (Pin_17,19)



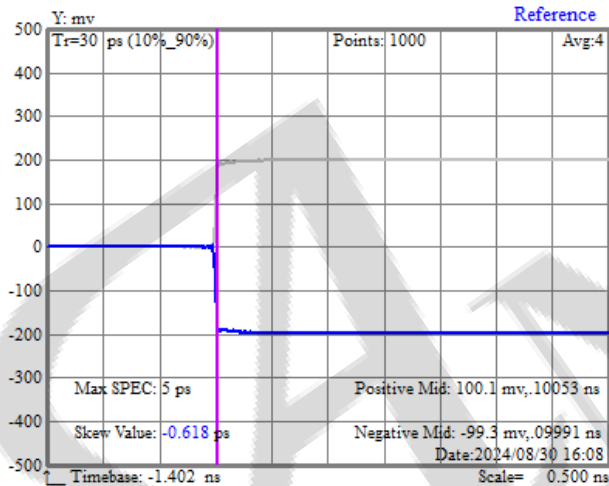
IntraPair_Skew (Pin_1,3)



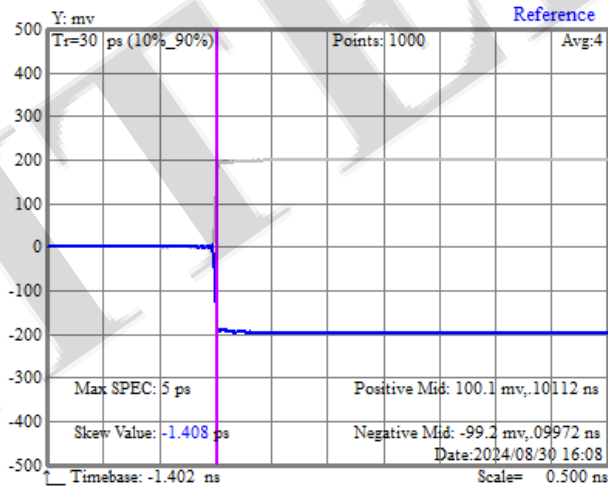
IntraPair_Skew (Pin_5,7)



IntraPair_Skew (Pin_9,11)



IntraPair_Skew (Pin_13,15)



IntraPair_Skew (Pin_17,19)

