Record File: D:\SECRI\CTS650A\TestRecord\CTS260201-14-P.cts

Test Information

Test Time : 2026/02/01 10:34:43	Temperature:20C
Standard:TIA-568.2-D Cat6	Test Result:Pass
Cable Length:305m	Cable Type:UTP CAT6 0.55 LSZH
Tester:	Cable ID:0120-02080

Test Result List

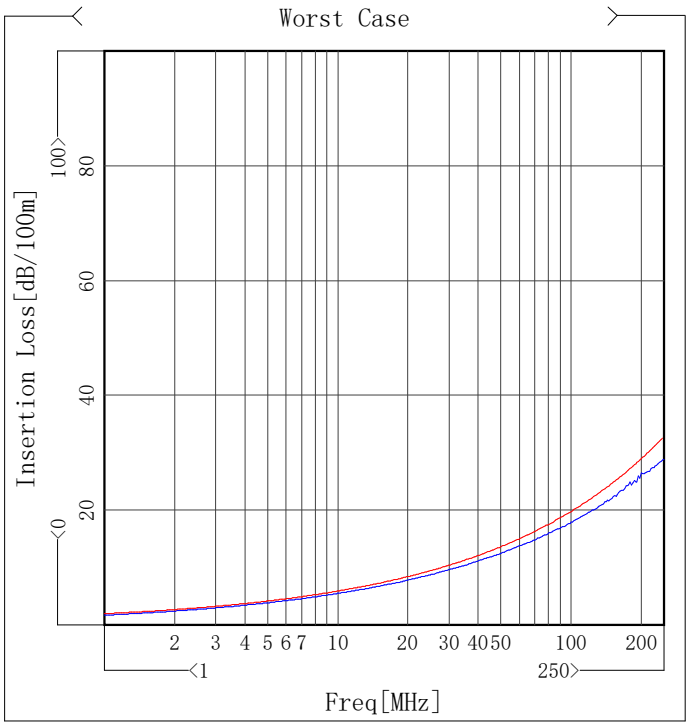
Test Item	Unit	Test Result
Insertion Loss	dB/100m	Pass
Delay	ns/100m	Pass
Delay Skew	ns/100m	Pass
Zin	Ohm	Pass
Zo	Ohm	Pass
Return Loss	dB	Pass
NEXT	dB@100m	Pass
PS NEXT	dB@100m	Pass

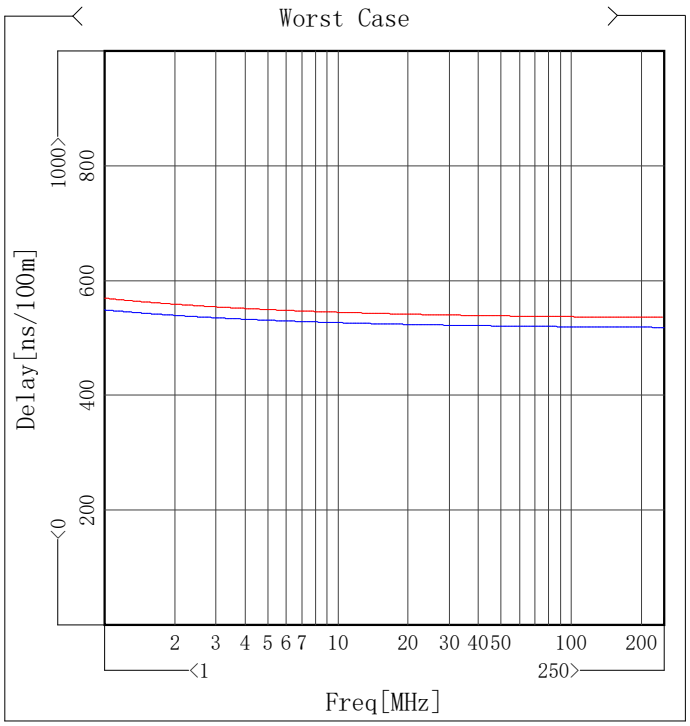
Inspector:
Date :

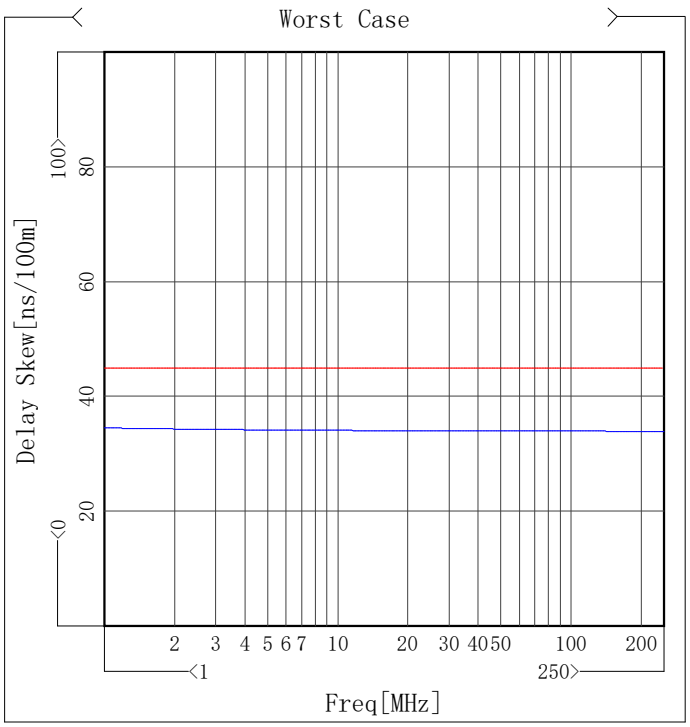
Assessor :
Date :

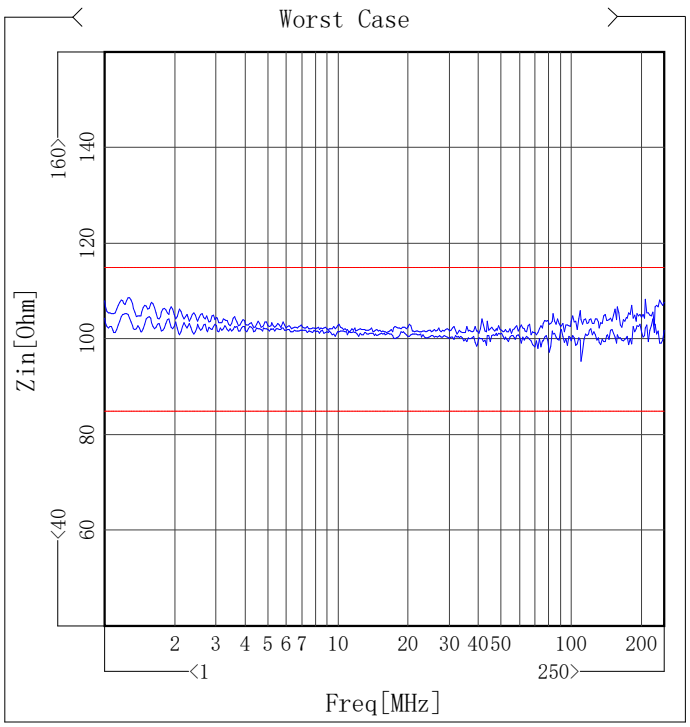
Worst Summary Of High Freq Parameter

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✔ Insertion Loss[dB/100m]	2.34	1.80	2.60	0.26	/	/	/	/
✔ Delay[ns/100m]	518.98	250.00	536.28	17.30	/	/	/	/
✔ Delay Skew[ns/100m]	34.57	1.02	45.00	10.43	/	/	/	/
✔ Zin[Ohm]	108.68	1.29	115.00	6.32	95.45	112.13	85.00	10.45



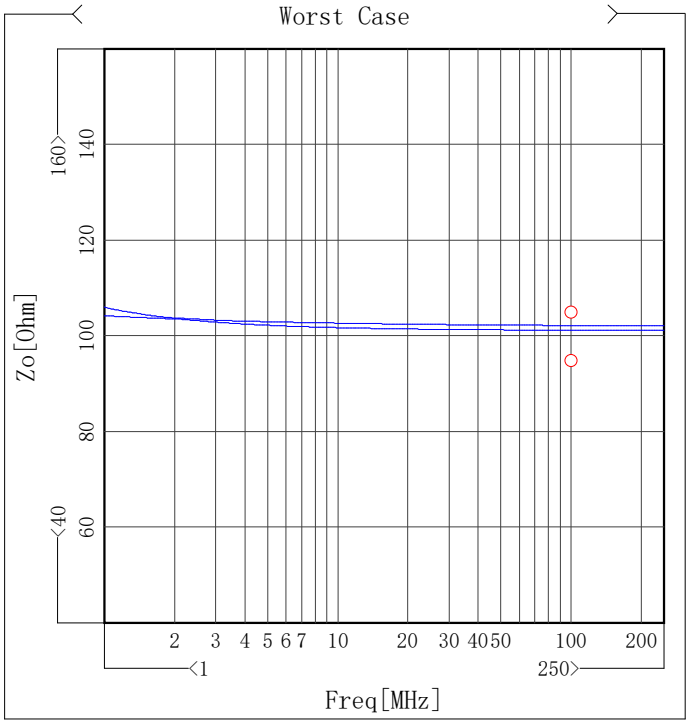


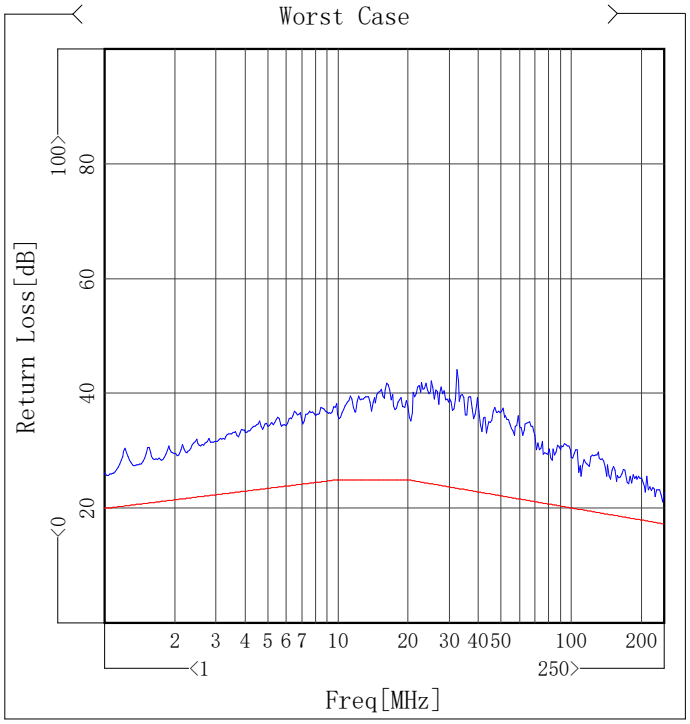


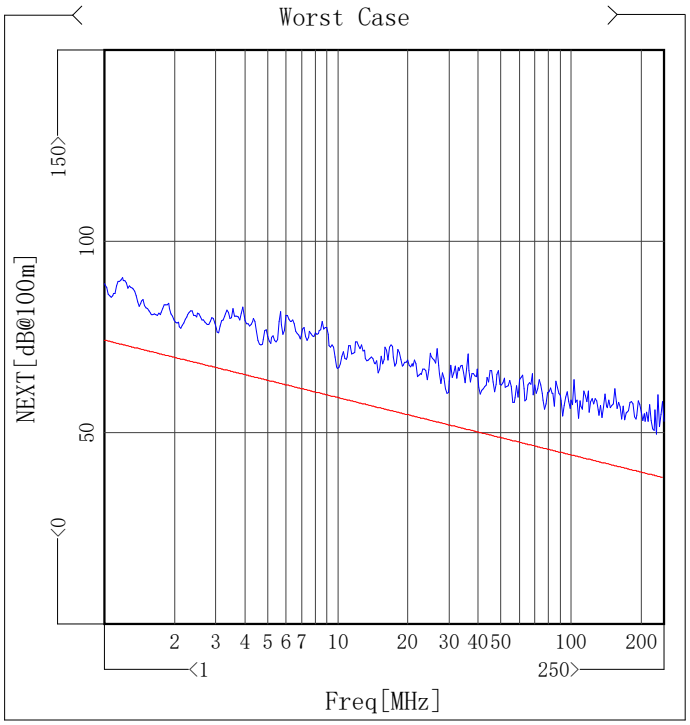


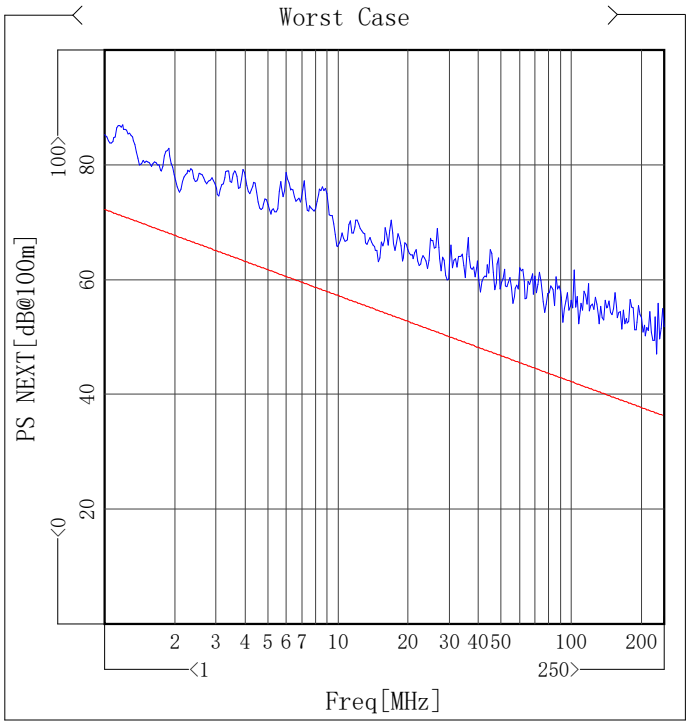
Worst Summary Of High Freq Parameter(2)

Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✔ Zo[Ohm]	102.26	100.00	105.00	2.74	101.27	100.00	95.00	6.27
✔ Return Loss[dB]	/	/	/	/	21.19	247.04	17.36	3.83
✔ NEXT[dB@100m]	/	/	/	/	66.96	10.07	59.25	7.71
✔ PS NEXT[dB@100m]	/	/	/	/	75.34	2.13	67.37	7.97



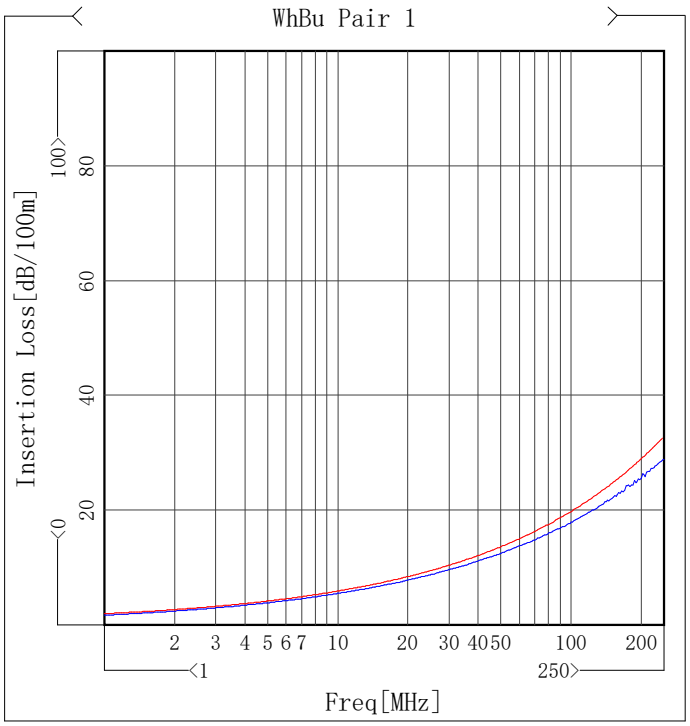


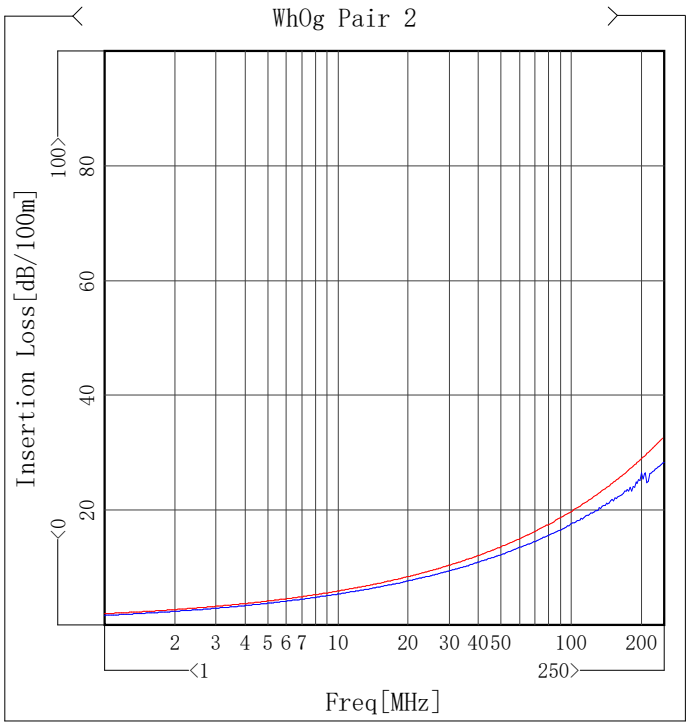


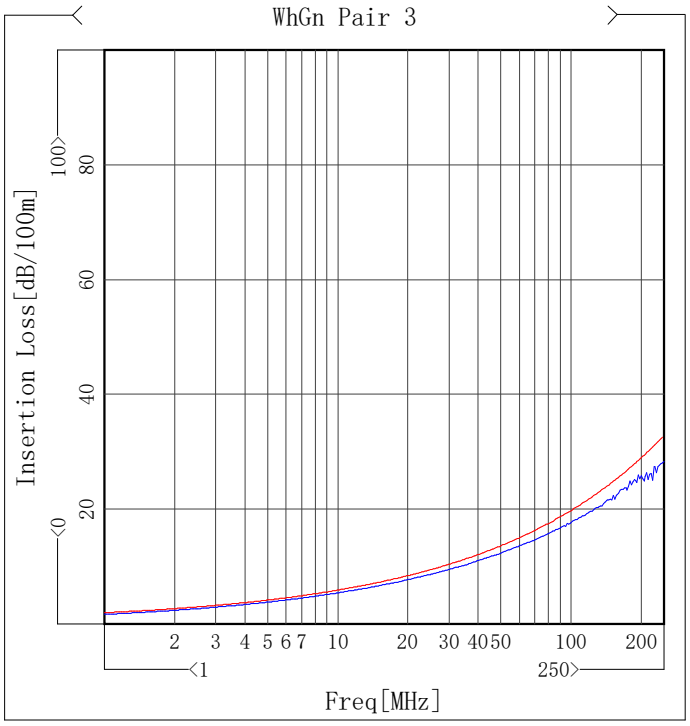


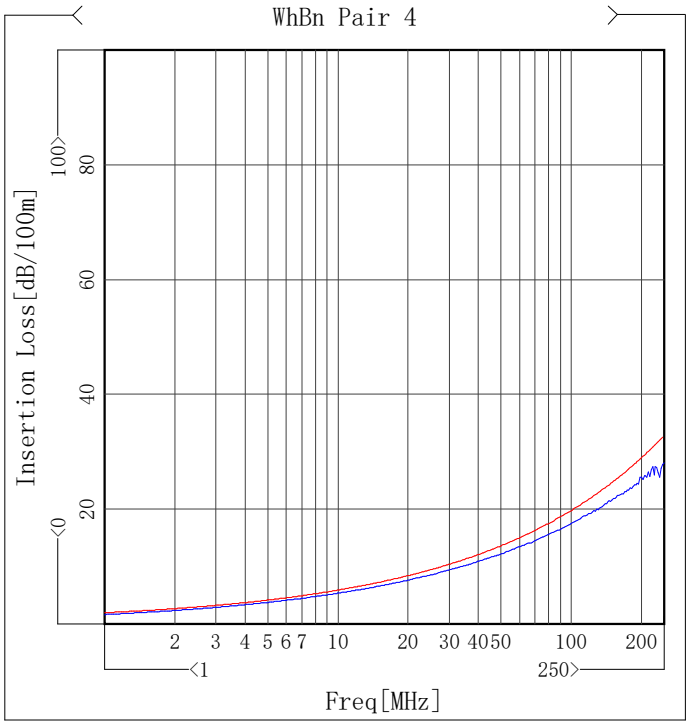
Insertion Loss

Item	Max [dB/100m]	Freq[MHz]	Spec [dB/100m]	Margin [dB/100m]
✔ WhBu Pair 1	2.34	1.80	2.60	0.26
✔ WhOg Pair 2	2.29	1.80	2.60	0.31
✔ WhGn Pair 3	2.51	2.13	2.81	0.30
✔ WhBn Pair 4	2.16	1.62	2.48	0.32



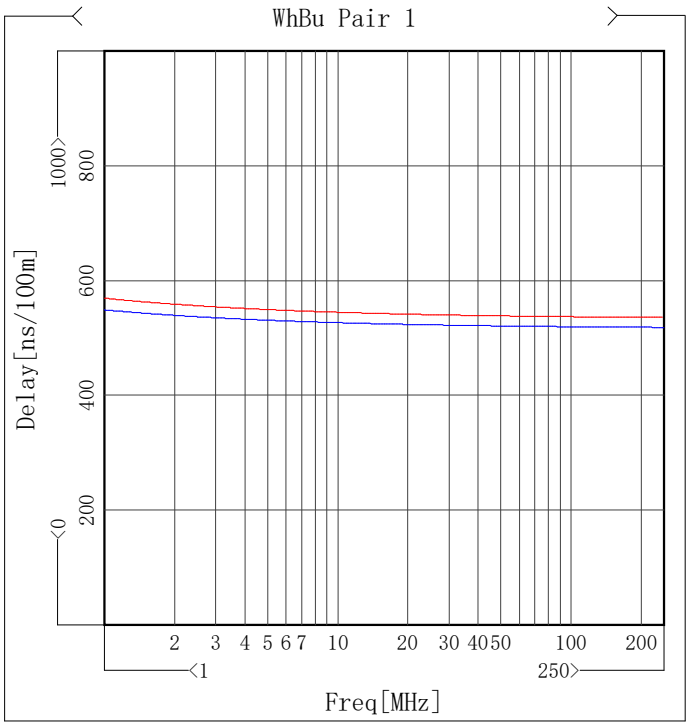


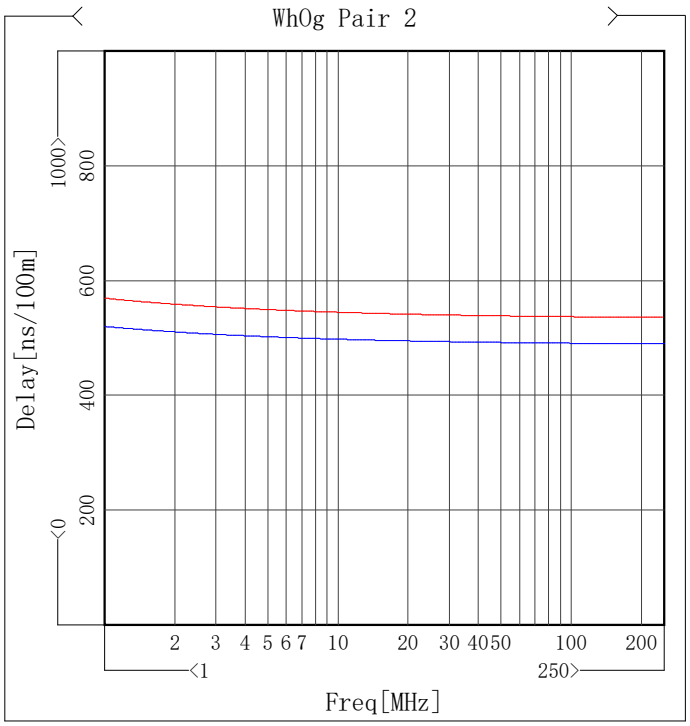


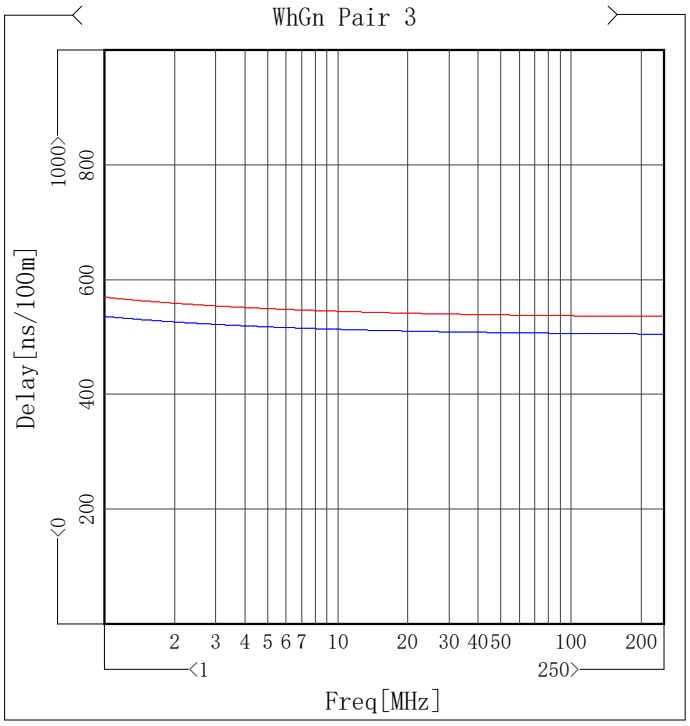


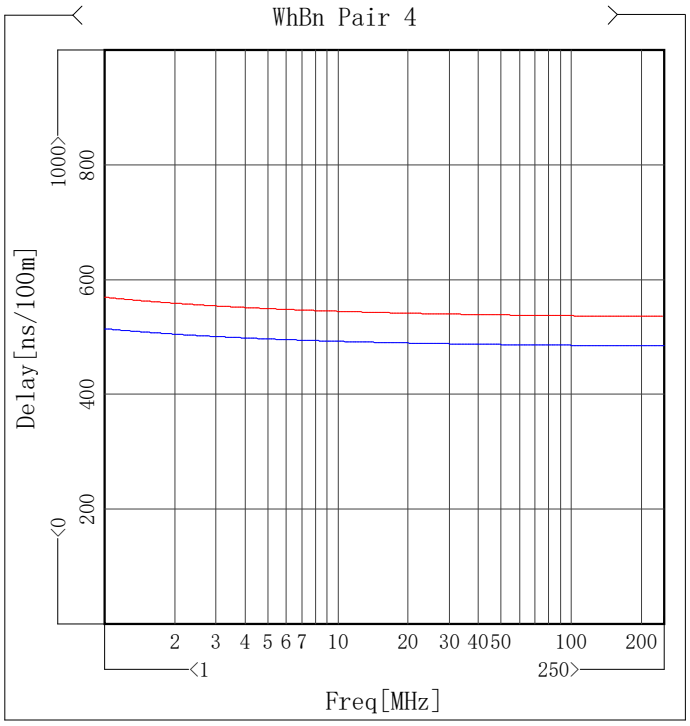
Delay

	Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
✔	WhBu Pair 1	518.98	250.00	536.28	17.30
✔	WhOg Pair 2	490.25	244.09	536.30	46.05
✔	WhGn Pair 3	505.67	247.04	536.29	30.62
✔	WhBn Pair 4	485.00	250.00	536.28	51.28



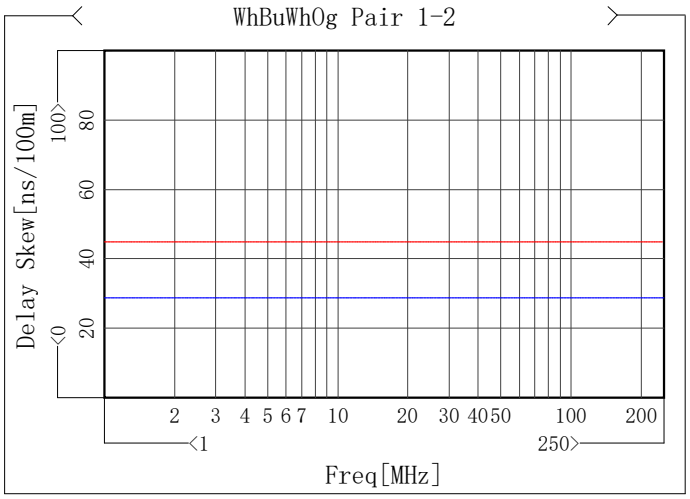


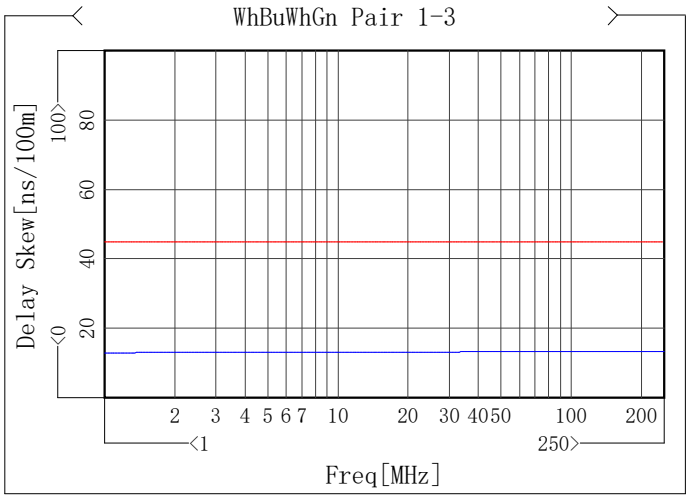


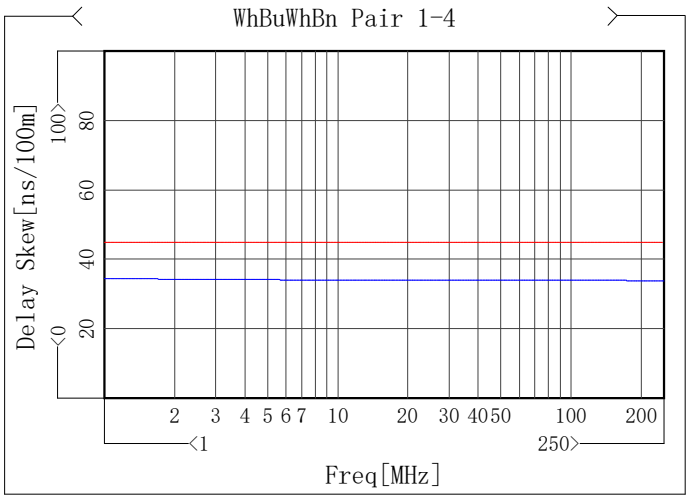


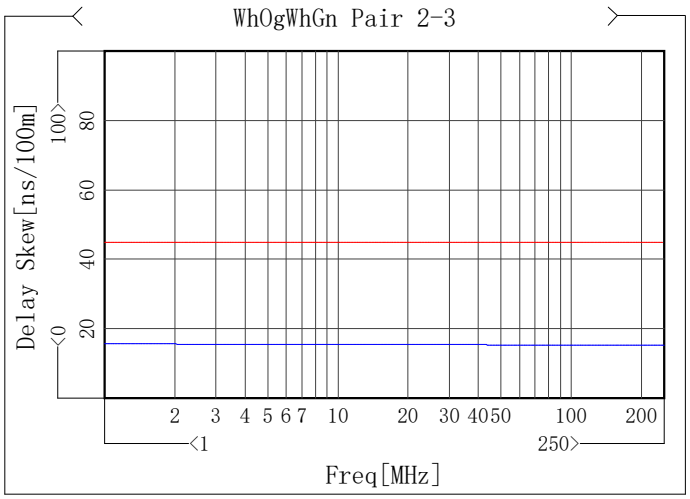
Delay Skew

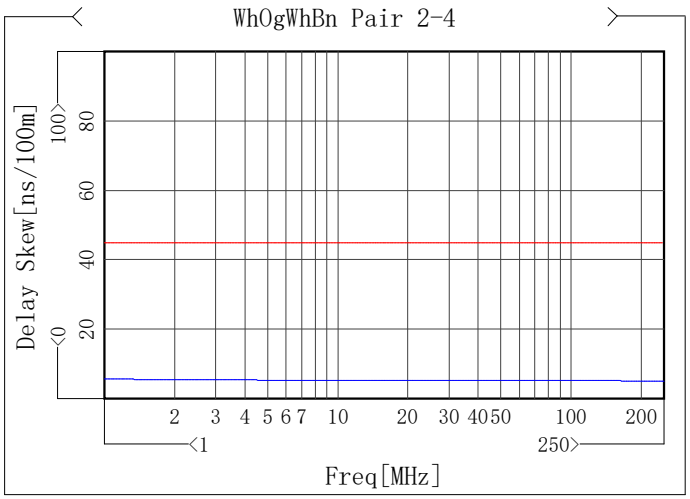
Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
✔ WhBuWhOg Pair 1-2	28.83	1.15	45.00	16.17
✔ WhBuWhGn Pair 1-3	13.32	250.00	45.00	31.68
✔ WhBuWhBn Pair 1-4	34.57	1.02	45.00	10.43
✔ WhOgWhGn Pair 2-3	15.80	1.05	45.00	29.20
✔ WhOgWhBn Pair 2-4	5.74	1.02	45.00	39.26
✔ WhGnWhBn Pair 3-4	21.54	1.02	45.00	23.46

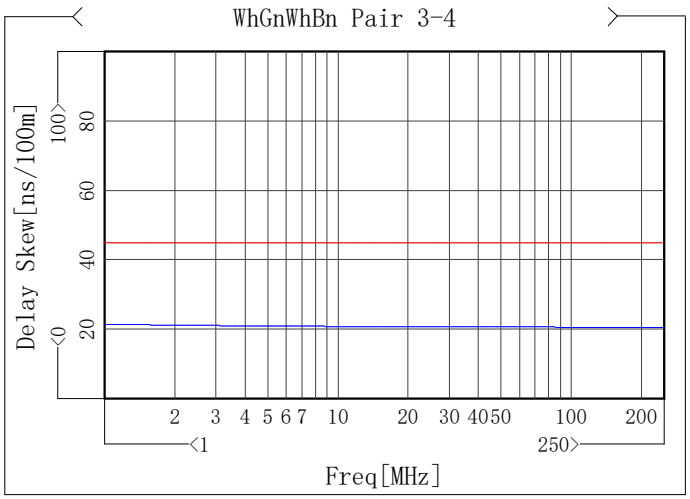






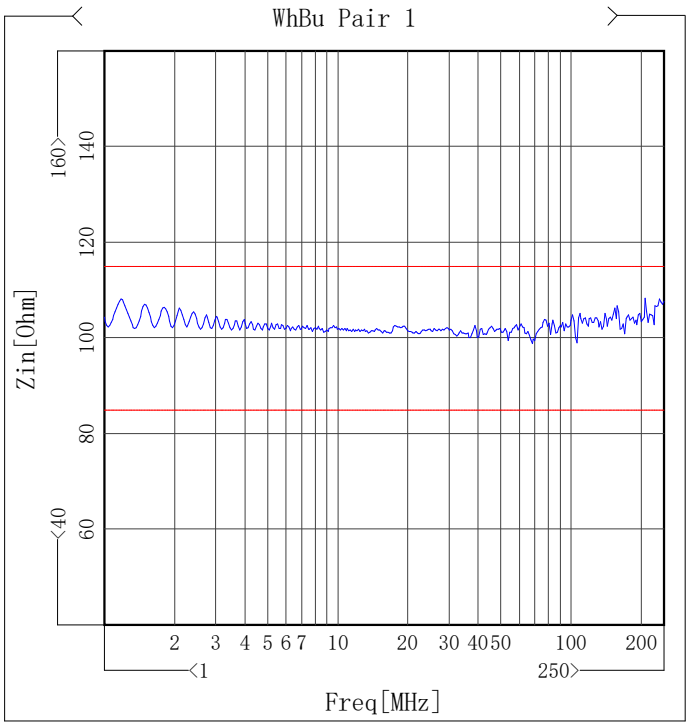


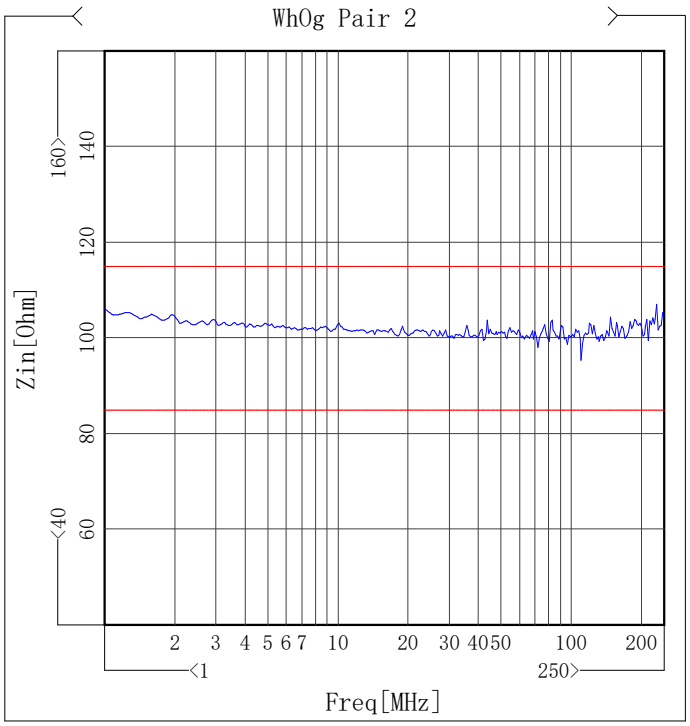


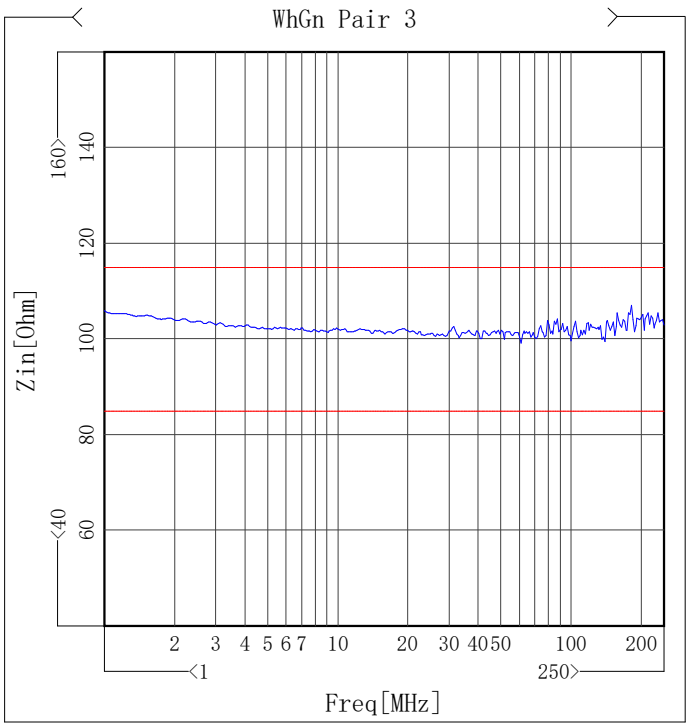


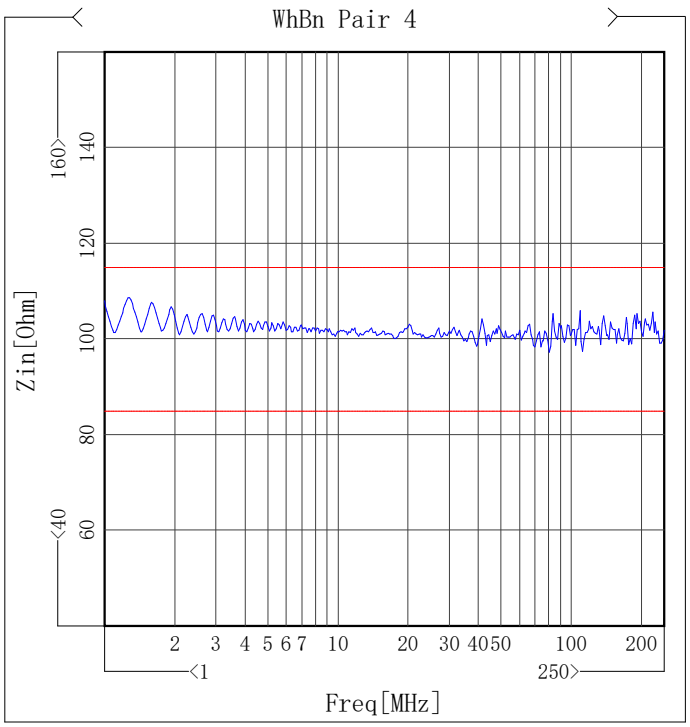
Zin

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
✔ WhBu Pair 1	108.42	211.56	115.00	6.58	98.83	68.30	85.00	13.83
✔ WhOg Pair 2	107.14	235.22	115.00	7.86	95.45	112.13	85.00	10.45
✔ WhGn Pair 3	107.04	182.00	115.00	7.96	99.21	61.84	85.00	14.21
✔ WhBn Pair 4	108.68	1.29	115.00	6.32	97.29	81.54	85.00	12.29



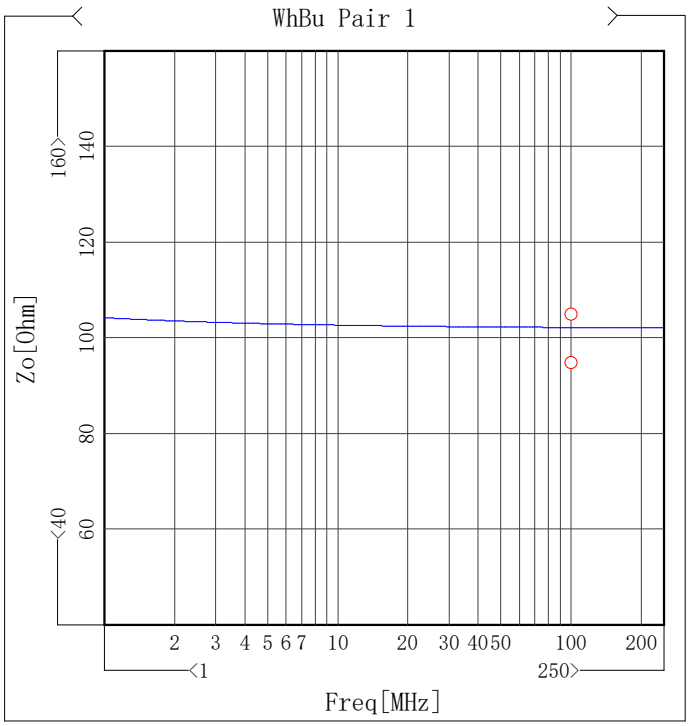


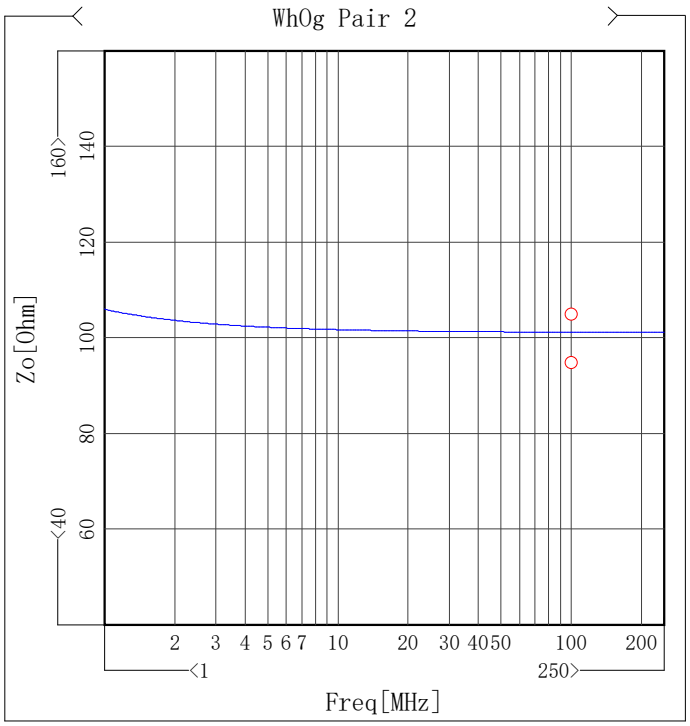


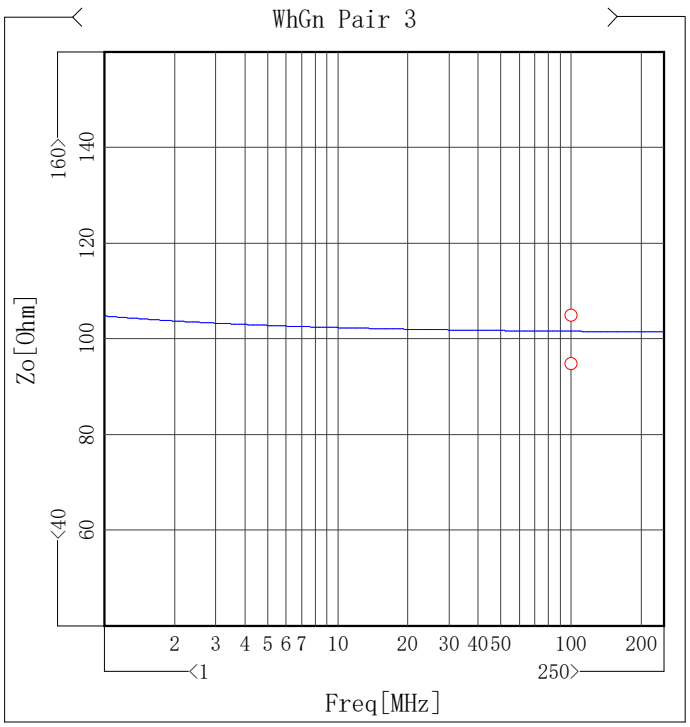


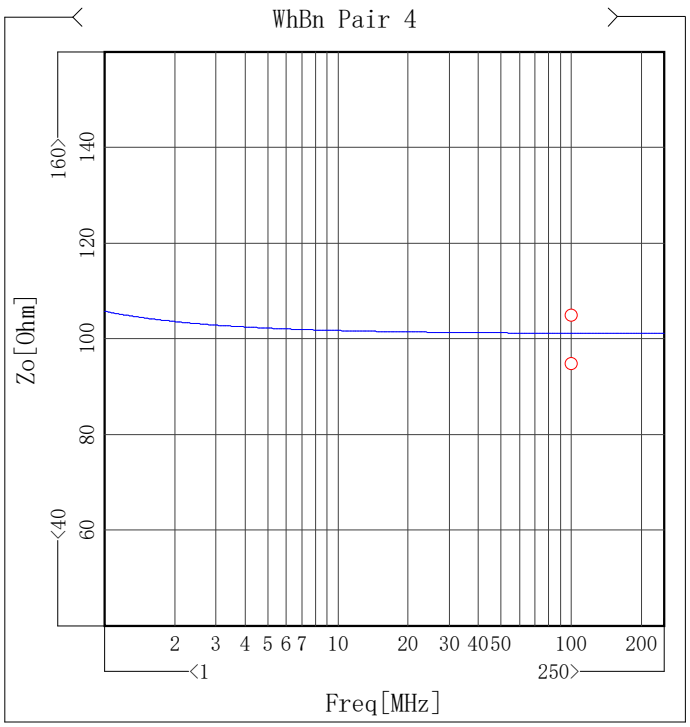
Zo

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
✔ WhBu Pair 1	102.26	100.00	105.00	2.74	102.26	100.00	95.00	7.26
✔ WhOg Pair 2	101.28	100.00	105.00	3.72	101.28	100.00	95.00	6.28
✔ WhGn Pair 3	101.68	100.00	105.00	3.32	101.68	100.00	95.00	6.68
✔ WhBn Pair 4	101.27	100.00	105.00	3.73	101.27	100.00	95.00	6.27



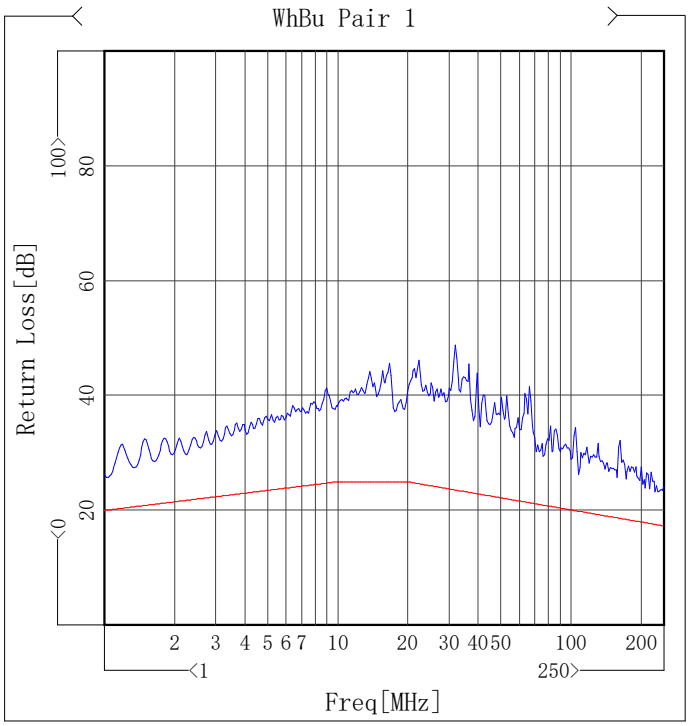


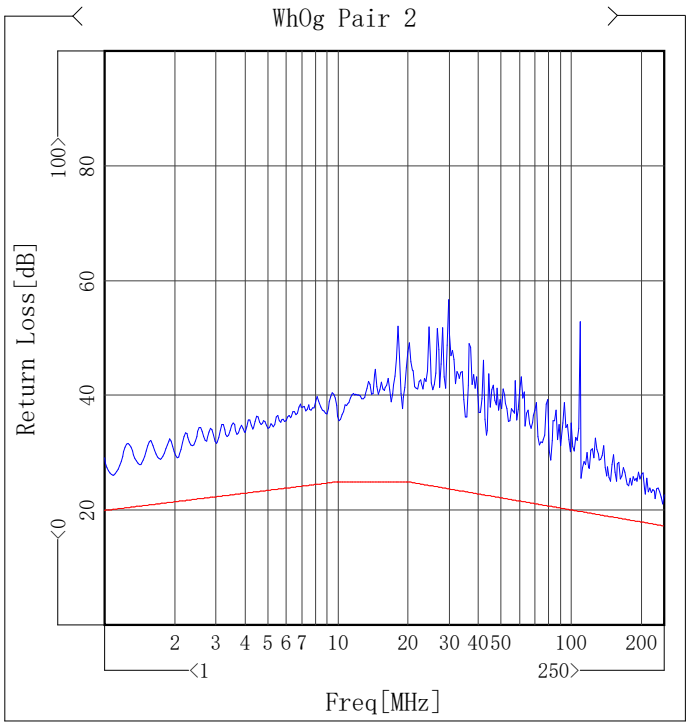


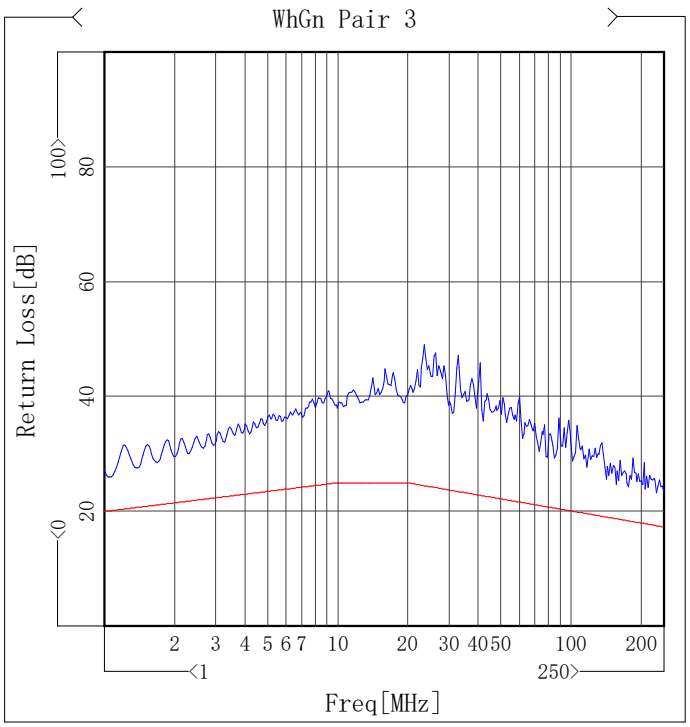


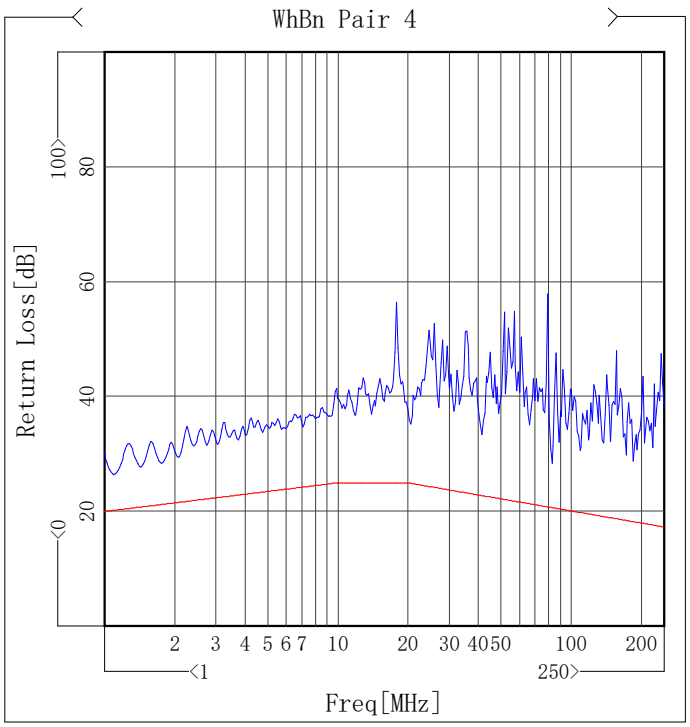
Return Loss

Item	Min [dB]	Freq[MHz]	Spec [dB]	Margin [dB]
✔ WhBu Pair 1	23.21	232.26	17.55	5.66
✔ WhOg Pair 2	21.19	247.04	17.36	3.83
✔ WhGn Pair 3	23.21	235.22	17.51	5.70
✔ WhBn Pair 4	26.48	1.11	20.23	6.25



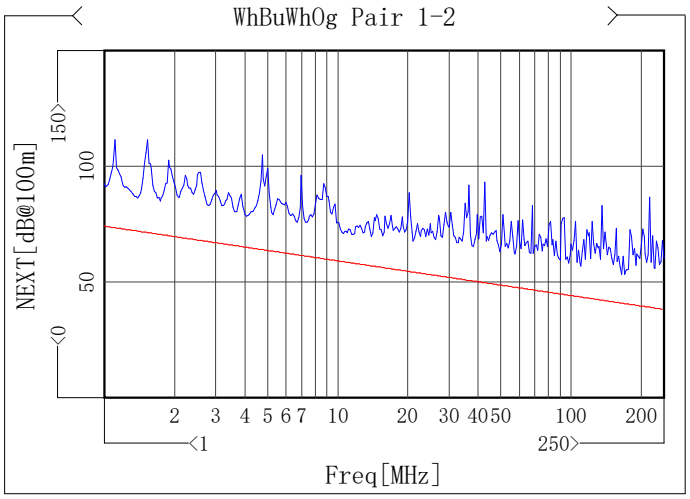


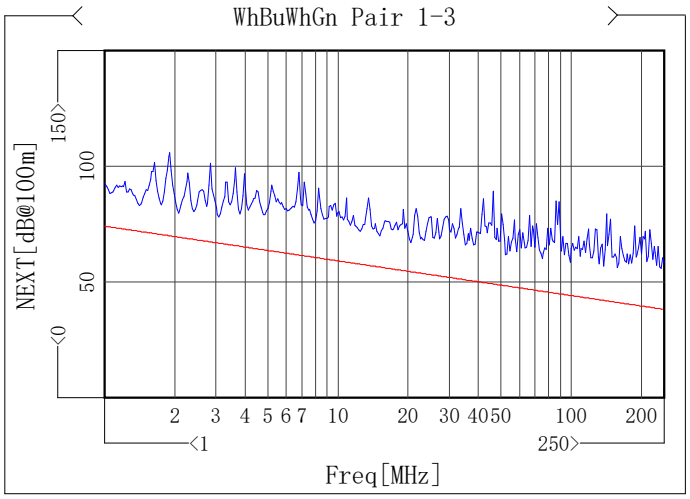


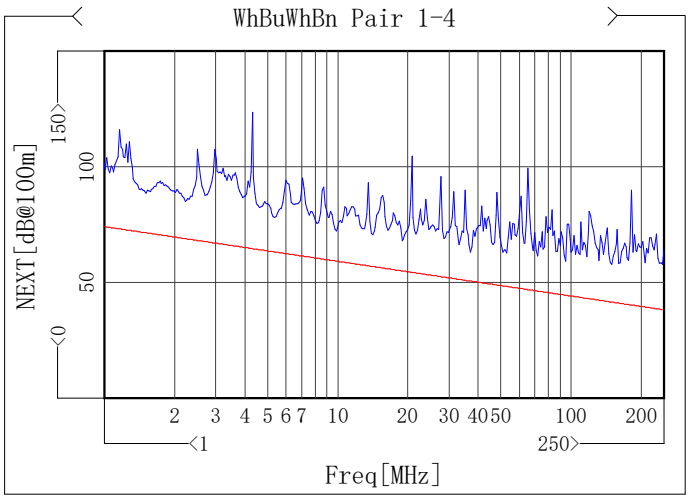


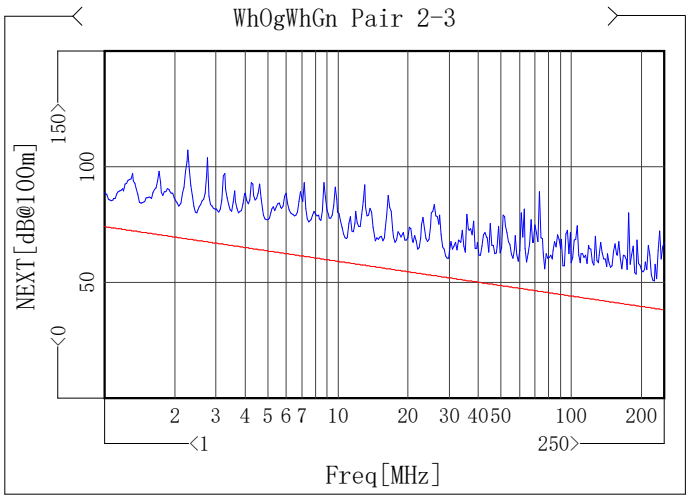
NEXT

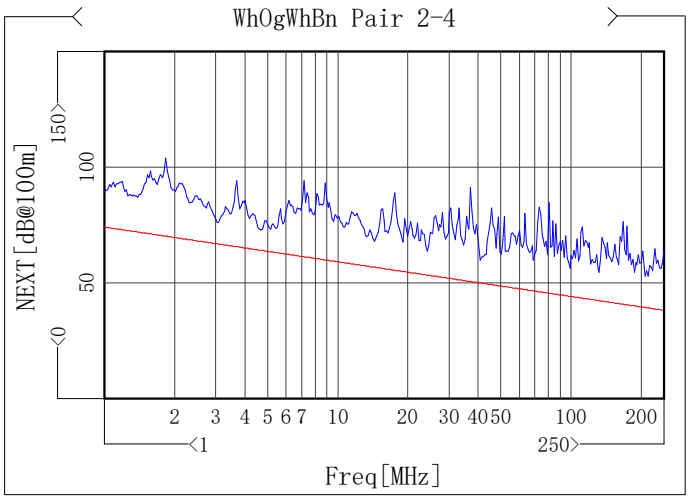
Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
✔ WhBuWhOg Pair 1-2	71.15	10.70	58.86	12.29
✔ WhBuWhGn Pair 1-3	79.91	2.10	69.47	10.44
✔ WhBuWhBn Pair 1-4	63.28	37.44	50.70	12.58
✔ WhOgWhGn Pair 2-3	60.47	29.76	52.20	8.27
✔ WhOgWhBn Pair 2-4	72.98	4.73	64.18	8.80
✔ WhGnWhBn Pair 3-4	66.96	10.07	59.25	7.71

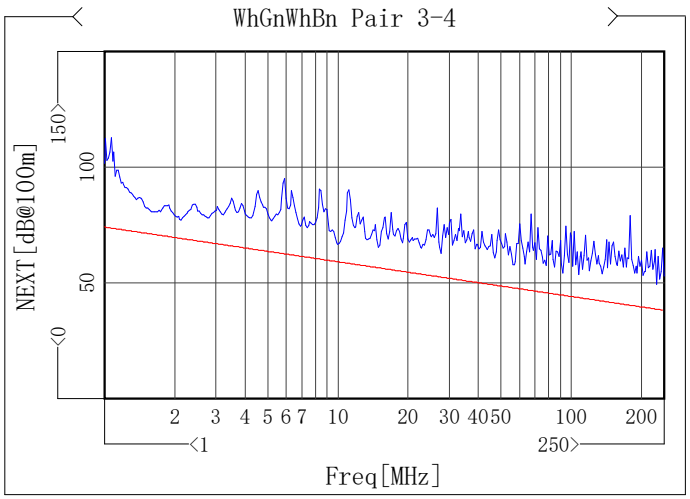






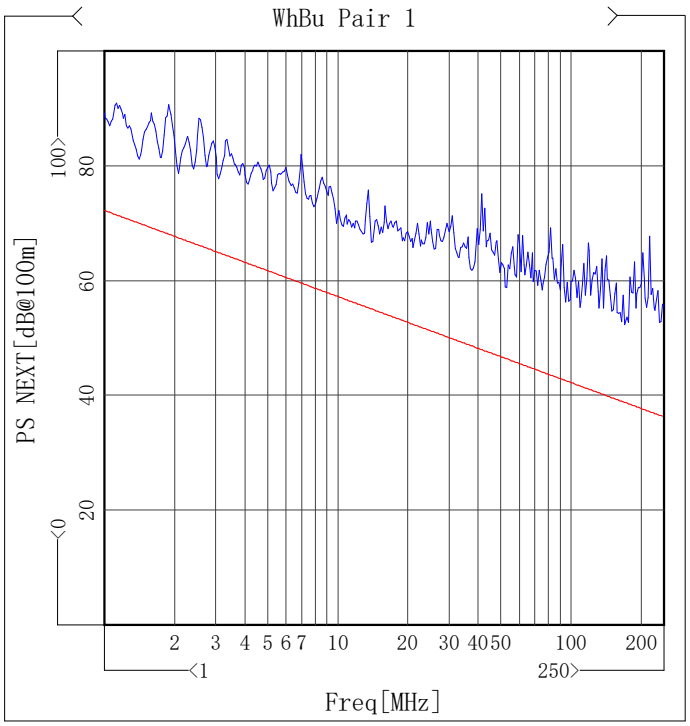


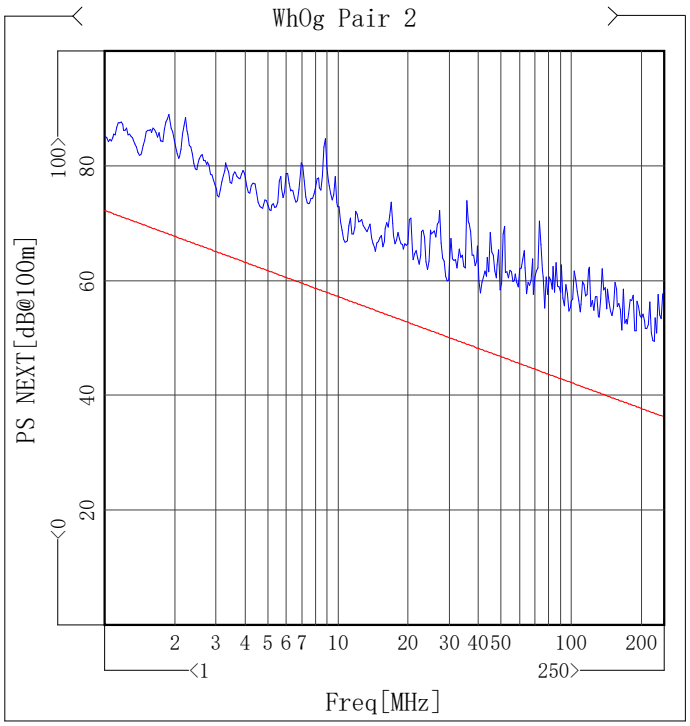


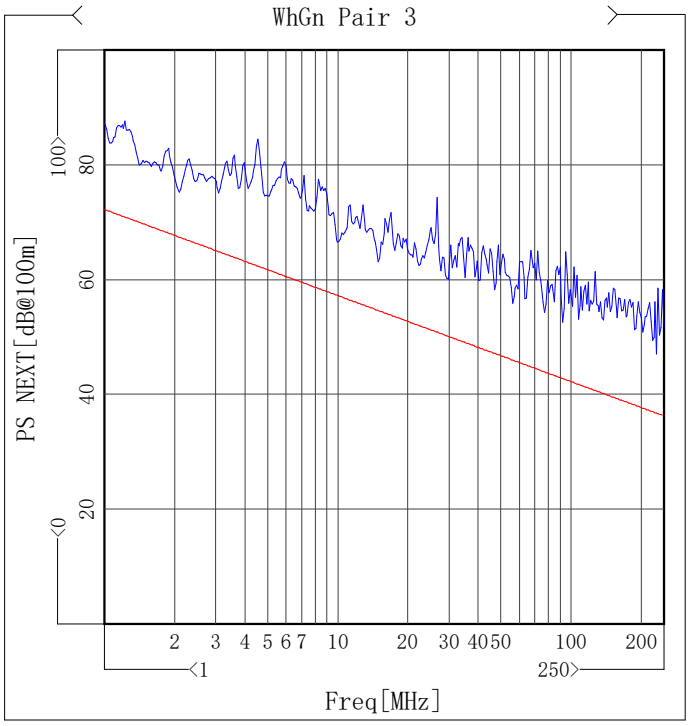


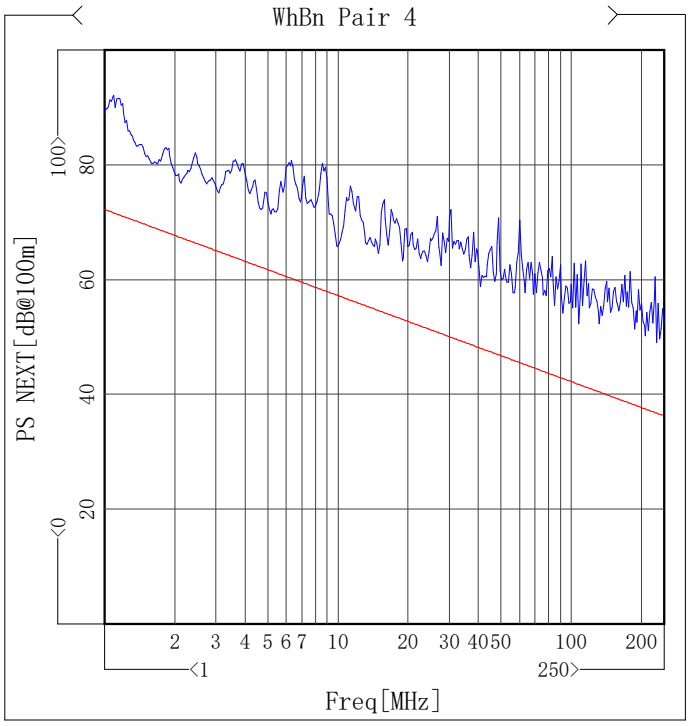
PS NEXT

Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
✔ WhBu Pair 1	81.19	1.42	70.04	11.15
✔ WhOg Pair 2	59.95	29.76	50.20	9.75
✔ WhGn Pair 3	75.34	2.13	67.37	7.97
✔ WhBn Pair 4	65.76	10.07	57.25	8.51









Insertion Loss[dB/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	2.03	1.75	1.71	1.72	1.70
2	4	3.78	3.48	3.41	3.43	3.39
3	8	5.32	4.93	4.83	4.87	4.81
4	10	5.95	5.52	5.41	5.45	5.39
5	16	7.55	7.00	6.86	6.91	6.83
6	20	8.47	7.84	7.68	7.74	7.66
7	25	9.51	8.77	8.61	8.67	8.58
8	31.25	10.67	9.83	9.64	9.72	9.61
9	50	13.66	12.50	12.25	12.33	12.21
10	62.5	15.38	14.01	13.75	13.87	13.73
11	100	19.8	17.81	17.57	17.56	17.46
12	125	22.36	20.05	19.63	19.74	19.67
13	200	28.98	25.44	25.32	25.44	25.58
14	250	32.85	28.97	28.40	28.36	28.07

Delay[ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	570	549.58	520.75	536.56	515.01
2	4	552	533.33	504.53	520.14	499.07
3	8	546.73	528.52	499.74	515.29	494.36
4	10	545.38	527.26	498.48	514.02	493.12
5	16	543	525.12	496.35	511.86	491.03
6	20	542.05	524.25	495.47	510.97	490.16
7	25	541.2	523.46	494.69	510.18	489.39
8	31.25	540.44	522.79	494.02	509.50	488.73
9	50	539.09	521.53	492.77	508.23	487.50
10	62.5	538.55	521.06	492.30	507.76	487.04
11	100	537.6	520.19	491.43	506.87	486.18
12	125	537.22	519.84	491.08	506.52	485.85
13	200	536.55	519.23	490.47	505.91	485.25
14	250	536.28	518.98	490.22	505.65	485.00

Delay Skew[ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	45	28.83	13.03	34.57	15.80	5.74	21.54
2	4	45	28.79	13.18	34.26	15.61	5.46	21.07
3	8	45	28.78	13.23	34.16	15.55	5.38	20.93
4	10	45	28.78	13.24	34.14	15.53	5.36	20.90
5	16	45	28.77	13.26	34.10	15.51	5.33	20.83
6	20	45	28.77	13.27	34.08	15.50	5.31	20.81
7	25	45	28.77	13.28	34.07	15.49	5.30	20.78
8	31.25	45	28.77	13.29	34.05	15.48	5.29	20.77
9	50	45	28.76	13.30	34.03	15.46	5.26	20.73
10	62.5	45	28.76	13.30	34.02	15.46	5.26	20.72
11	100	45	28.76	13.31	34.00	15.45	5.24	20.69

Delay Skew[ns/100m](Continuation 1)

No.	Freq [MHz]	Spec (Max)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
12	125	45	28.76	13.32	34.00	15.44	5.24	20.68
13	200	45	28.76	13.32	33.98	15.44	5.23	20.66
14	250	45	28.76	13.32	33.98	15.43	5.22	20.65

Zin[Ohm]

No.	Freq [MHz]	Spec		WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
		(Max)	(Min)				
1	1	115	85	104.45	106.19	105.96	108.00
2	4	115	85	103.83	102.93	102.62	103.43
3	8	115	85	102.01	101.88	101.97	102.42
4	10	115	85	102.09	102.67	102.21	101.45
5	16	115	85	101.54	101.63	101.26	101.60
6	20	115	85	101.88	100.80	101.91	102.31
7	25	115	85	101.91	100.76	101.17	100.61
8	31.25	115	85	101.66	100.52	102.06	101.67
9	50	115	85	101.80	101.26	101.33	101.78
10	62.5	115	85	102.52	100.35	100.62	100.43
11	100	115	85	102.80	100.32	100.59	100.89
12	125	115	85	103.28	101.51	102.48	102.34
13	200	115	85	105.08	103.07	104.10	103.53
14	250	115	85	107.75	105.25	103.02	101.91

Zo[Ohm]

No.	Freq [MHz]	Spec		WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
		(Max)	(Min)				
1	1	\	\	104.31	106.10	104.90	105.90
2	4	\	\	103.17	102.57	103.11	102.60
3	8	\	\	102.84	101.94	102.59	101.98
4	10	\	\	102.75	101.81	102.46	101.84
5	16	\	\	102.60	101.60	102.22	101.63
6	20	\	\	102.54	101.53	102.12	101.56
7	25	\	\	102.49	101.47	102.04	101.49
8	31.25	\	\	102.44	101.43	101.96	101.44
9	50	\	\	102.35	101.35	101.83	101.36
10	62.5	\	\	102.32	101.32	101.78	101.32
11	100	105	95	102.26	101.28	101.68	101.27
12	125	\	\	102.24	101.26	101.64	101.25
13	200	\	\	102.19	101.23	101.58	101.22
14	250	\	\	102.18	101.22	101.55	101.21

Return Loss[dB]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	20	26.33	29.14	27.38	30.33
2	4	23.01	35.00	33.86	34.16	34.29
3	8	24.52	38.88	37.92	39.04	36.54
4	10	25	38.23	37.28	38.24	40.51

Return Loss[dB](Continuation 1)

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
5	16	25	42.46	40.88	42.83	39.20
6	20	25	39.64	46.06	40.13	38.55
7	25	24.32	40.33	46.64	44.21	49.03
8	31.25	23.64	41.76	47.49	37.79	41.71
9	50	22.21	37.74	38.78	38.49	39.48
10	62.5	21.54	35.78	40.26	33.25	45.19
11	100	20.11	30.10	30.98	33.32	41.36
12	125	19.43	29.44	30.20	29.65	37.85
13	200	18	25.47	25.59	25.28	34.46
14	250	17.32	24.25	22.73	23.22	38.16

NEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBuWhOg Pair 1-2	WhBuWhGn Pair 1-3	WhBuWhBn Pair 1-4	WhOgWhGn Pair 2-3	WhOgWhBn Pair 2-4	WhGnWhBn Pair 3-4
1	1	74.3	92.58	92.56	101.74	88.97	89.44	101.75
2	4	65.27	81.30	94.05	87.34	87.14	84.93	82.00
3	8	60.75	79.26	75.99	79.16	80.67	79.58	75.32
4	10	59.3	75.79	79.40	72.85	82.99	78.26	67.13
5	16	56.24	71.85	75.96	84.78	69.40	76.69	78.14
6	20	54.78	74.19	73.95	72.44	68.93	72.39	73.24
7	25	53.33	74.77	78.16	73.51	73.79	71.55	71.08
8	31.25	51.88	77.35	73.85	76.59	65.93	78.42	71.40
9	50	48.82	64.41	71.94	68.56	63.59	63.19	68.21
10	62.5	47.36	74.58	70.20	74.42	71.67	65.61	65.80
11	100	44.3	62.78	59.58	68.08	69.67	57.36	71.64
12	125	42.85	73.03	61.62	73.80	58.55	59.95	64.66
13	200	39.78	60.88	68.67	65.52	57.42	58.76	57.74
14	250	38.33	60.42	58.61	64.10	67.58	64.12	53.07

PS NEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	72.3	89.31	85.29	87.24	88.95
2	4	63.27	79.94	78.86	80.32	79.41
3	8	58.75	73.06	75.01	71.98	72.79
4	10	57.3	70.47	73.25	66.75	65.84
5	16	54.24	70.22	66.91	68.07	73.95
6	20	52.78	68.47	66.34	66.33	67.61
7	25	51.33	70.27	68.38	68.58	67.05
8	31.25	49.88	70.53	65.38	63.84	68.58
9	50	46.82	62.01	58.85	61.58	61.10
10	62.5	45.36	66.74	63.56	63.19	62.28
11	100	42.3	57.25	55.52	58.12	56.63
12	125	40.85	60.70	56.05	55.97	58.36
13	200	37.78	58.85	53.95	54.32	54.81
14	250	36.33	55.73	58.33	51.88	52.43