Record File: E:\7FO-010746\CTS260114-18-P.cts

Test Information

Test Time : 2026/01/14 14:51:41	Temperature:25C
Standard:IEC 61156-5 CAT7	Test Result:Pass
Cable Length:100m	Cable Type:
Tester:	Cable ID:.

Test Result List

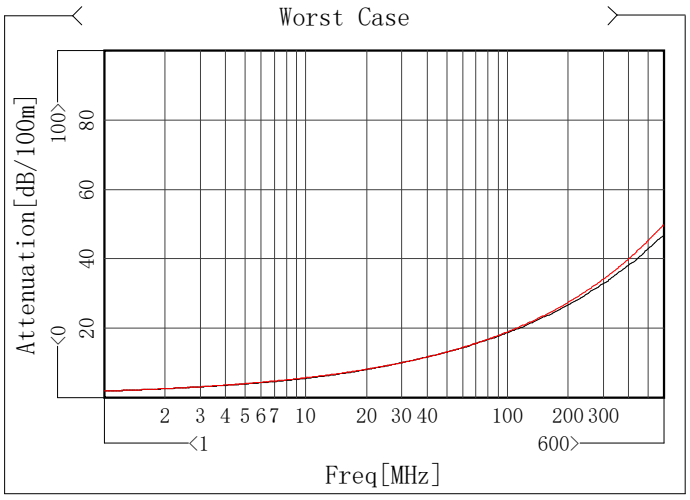
Test Item	Unit	Test Result
Attenuation	dB/100m	Pass
Propagation Delay	ns/100m	Pass
Propagation Delay Skew	ns/100m	Pass
Input Impedance	Ohm	Pass
Characteristic Impedance	Ohm	Pass
Return Loss	dB	Pass
Near End Crosstalk	dB@100m	Pass
Power Sum NEXT	dB@100m	Pass
Equal Level FEXT	dB@100m	Pass
Power Sum ELFEXT	dB@100m	Pass

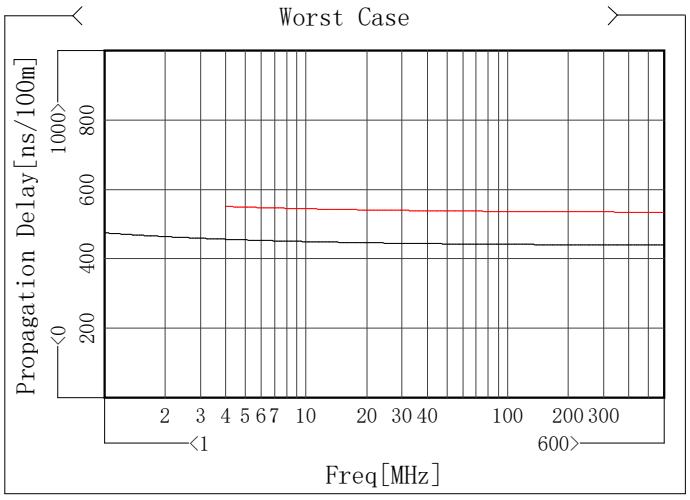
Inspector:
Date :

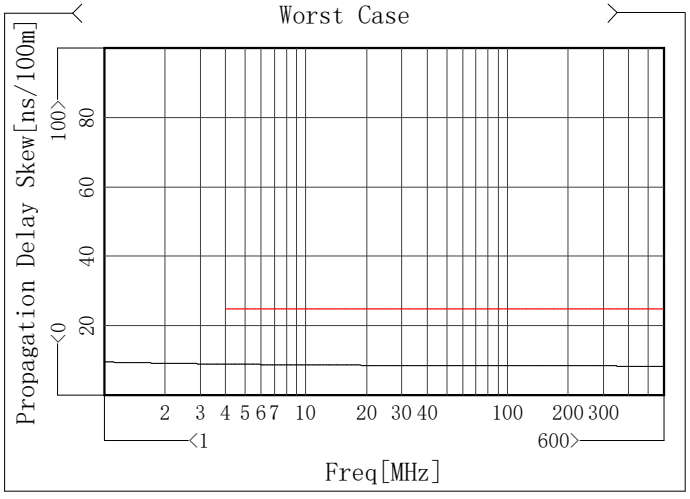
Assessor :
Date :

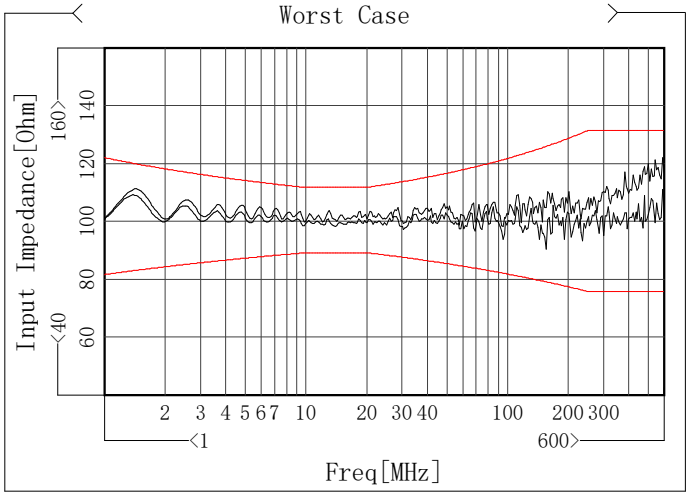
Worst Summary Of High Freq Parameter

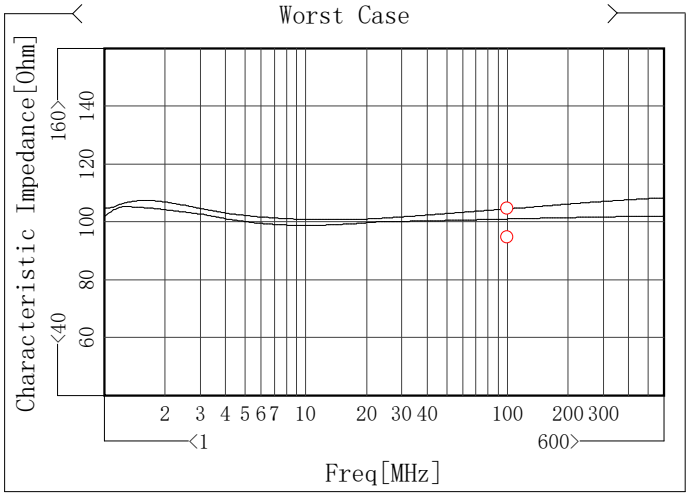
Item	Max	Freq[MHz]	Spec	Margin	Min	Freq[MHz]	Spec	Margin
✔ Attenuation[dB/100m]	2.23	1.32	2.25	0.02	/	/	/	/
✔ Propagation Delay[ns/100m]	457.37	4.13	551.71	94.34	/	/	/	/
✔ Propagation Delay Skew[ns/	9.04	4.13	25.00	15.96	/	/	/	/
✔ Input Impedance[Ohm]	104.00	13.16	111.92	7.92	98.41	14.13	89.35	9.06
✔ Characteristic Impedance[(	104.64	100.00	105.00	0.36	101.16	100.00	95.00	6.16
✔ Return Loss[dB]	/	/	/	/	18.42	550.35	17.30	1.12

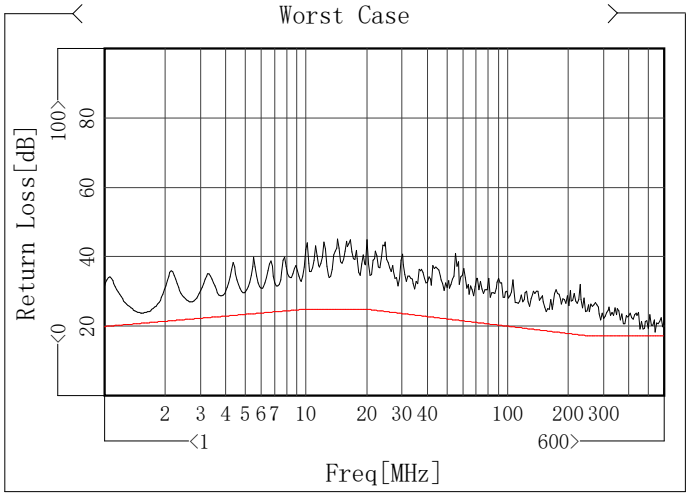






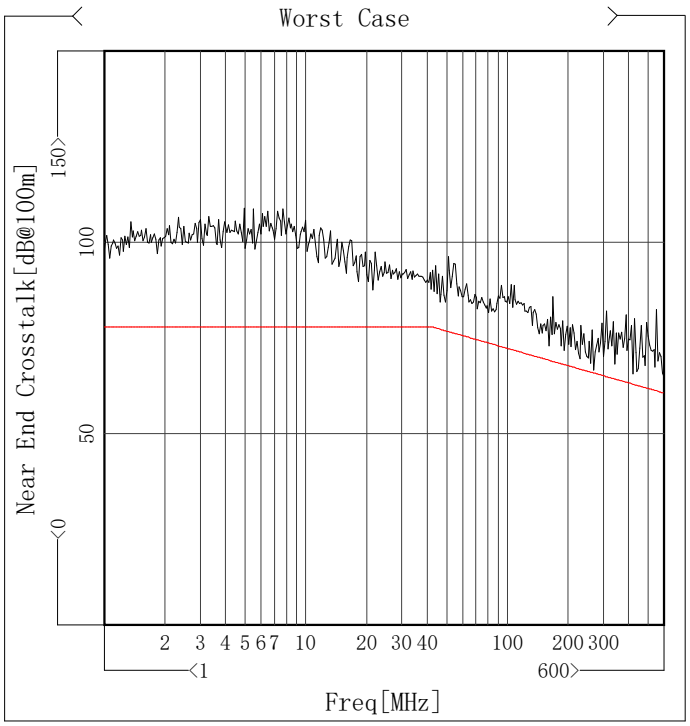


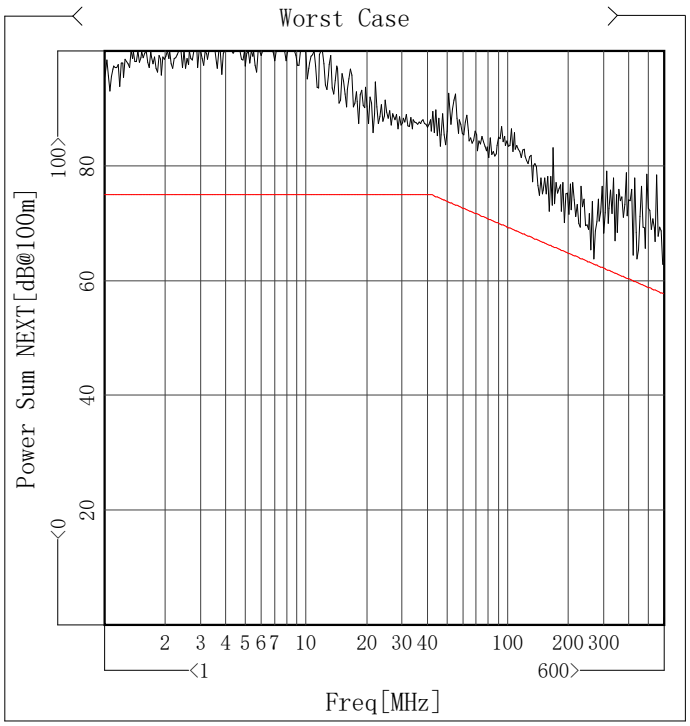


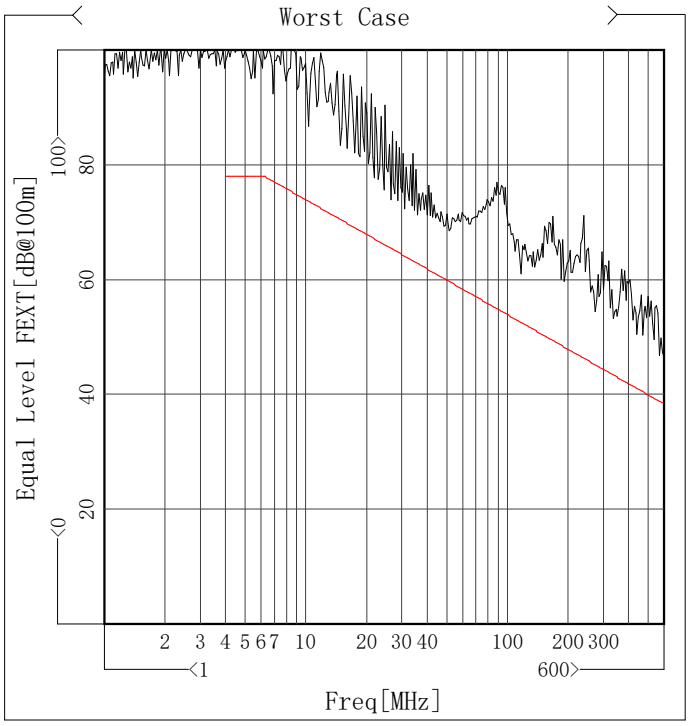


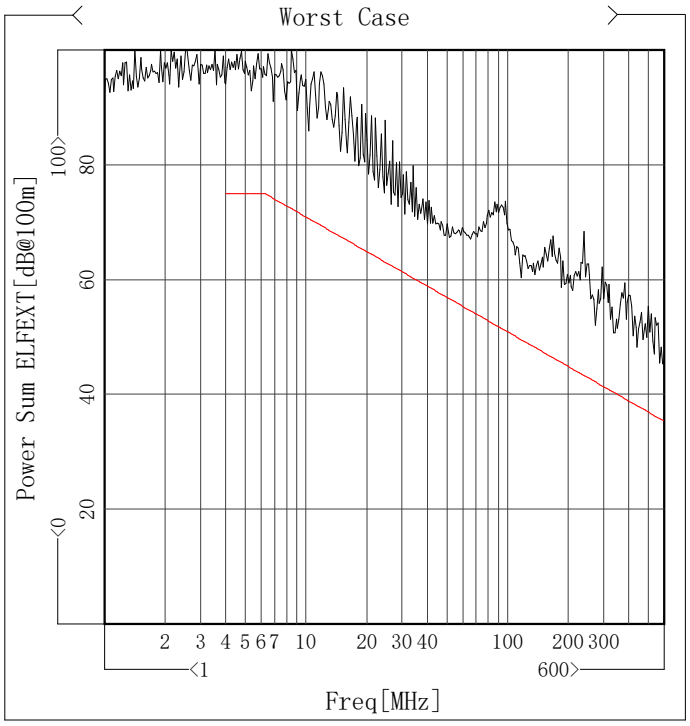
Worst Summary Of High Freq Parameter(2)

Item	Min	Freq[MHz]	Spec	Margin
✔ Near End Crosstalk[dB@100m	66.65	272.83	65.86	0.79
✔ Power Sum NEXT[dB@100m]	63.84	272.83	62.86	0.98
✔ Equal Level FEXT[dB@100m]	46.80	575.18	38.80	8.00
✔ Power Sum ELFEXT[dB@100m]	45.54	575.18	35.80	9.74



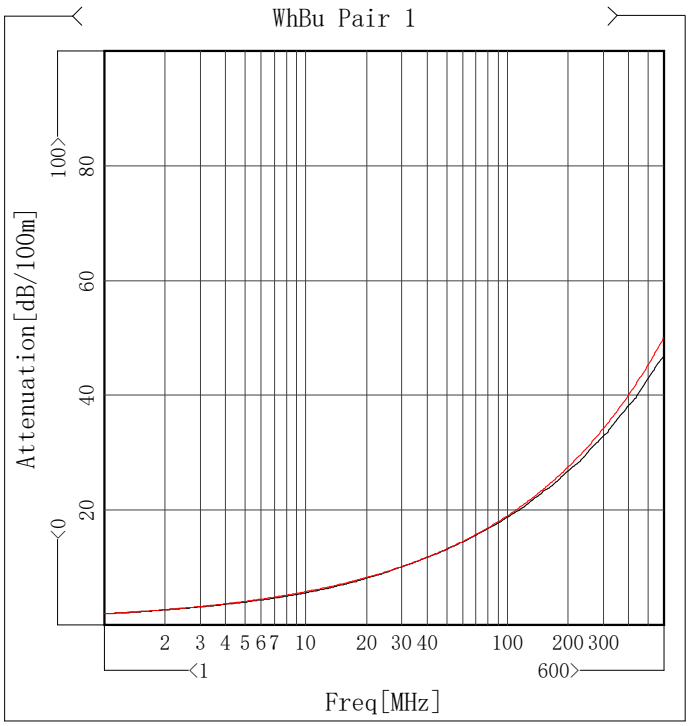


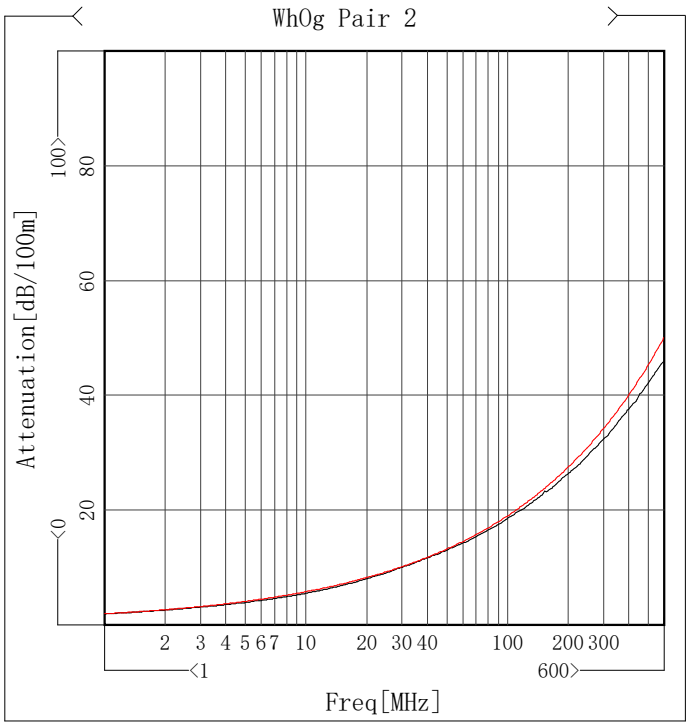


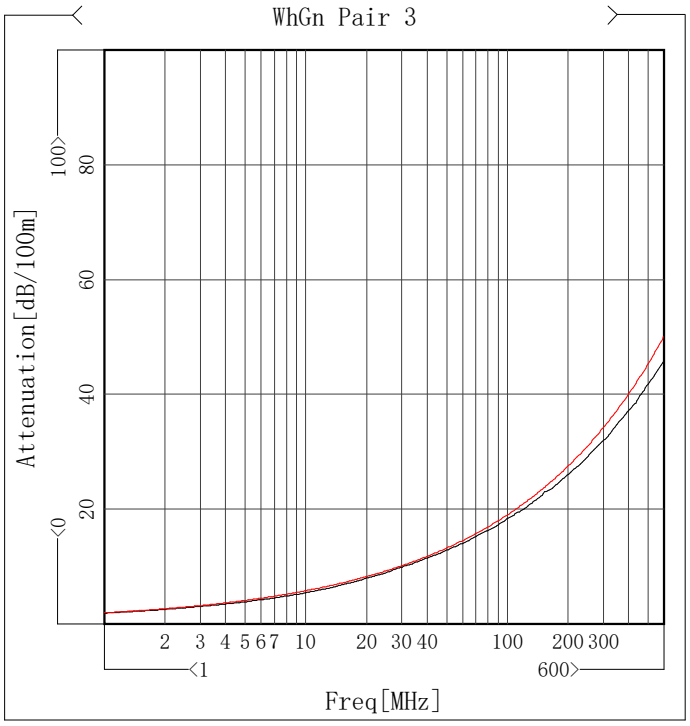


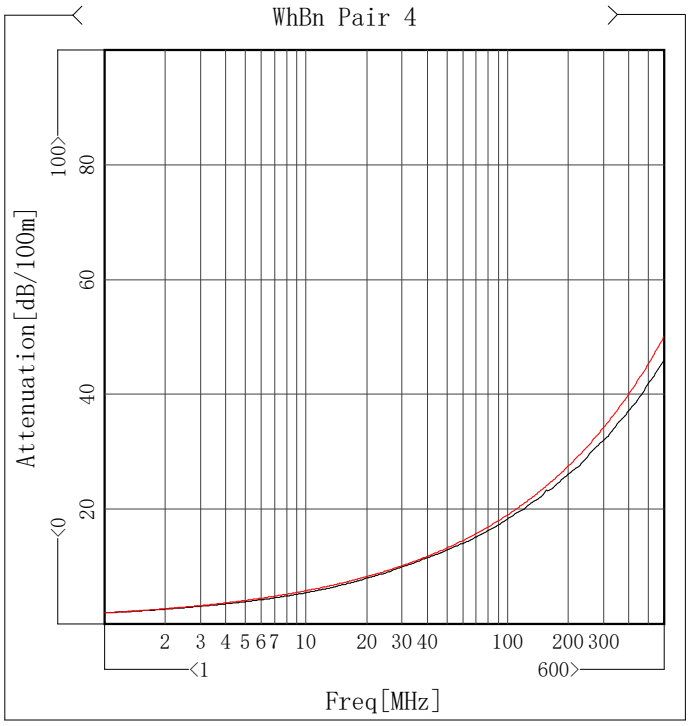
Attenuation

Item	Max [dB/100m]	Freq[MHz]	Spec [dB/100m]	Margin [dB/100m]
WhBu Pair 1	2.23	1.32	2.25	0.02
WhOg Pair 2	2.21	1.32	2.25	0.04
WhGn Pair 3	2.19	1.32	2.25	0.06
WhBn Pair 4	2.18	1.26	2.21	0.03



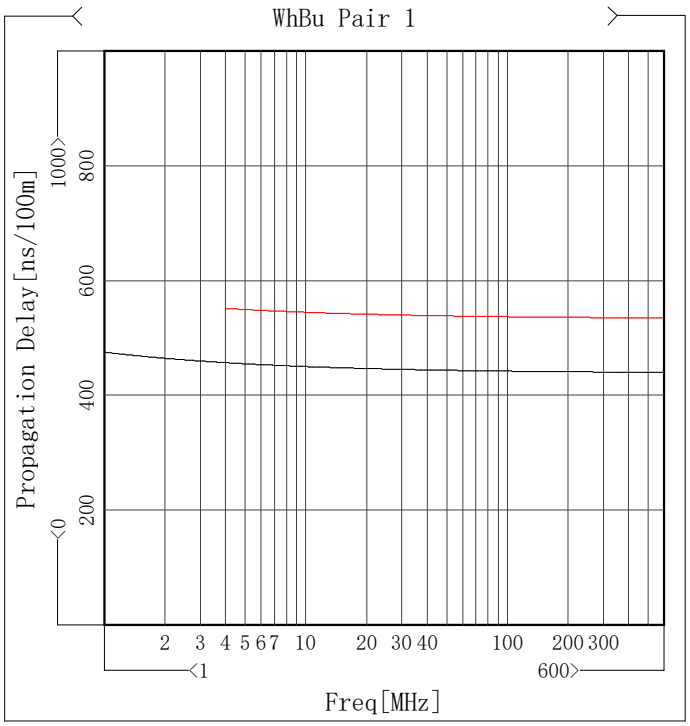


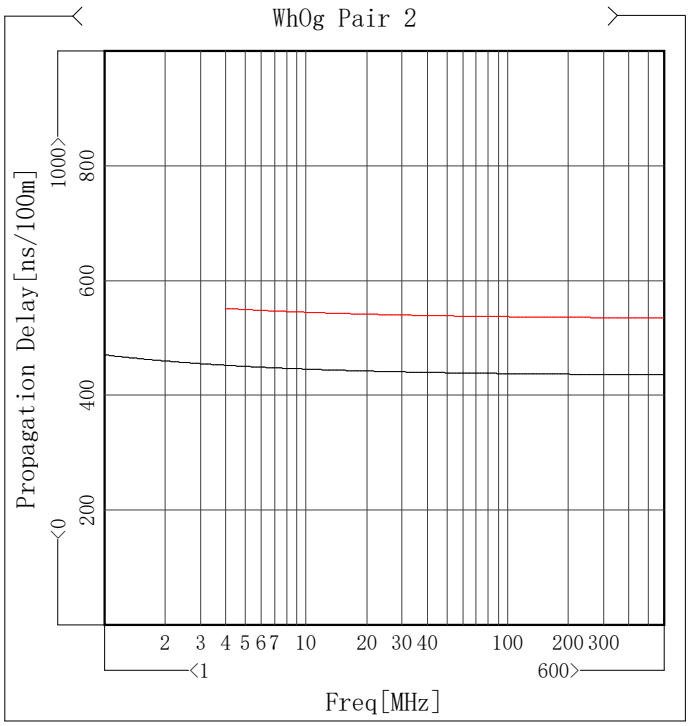


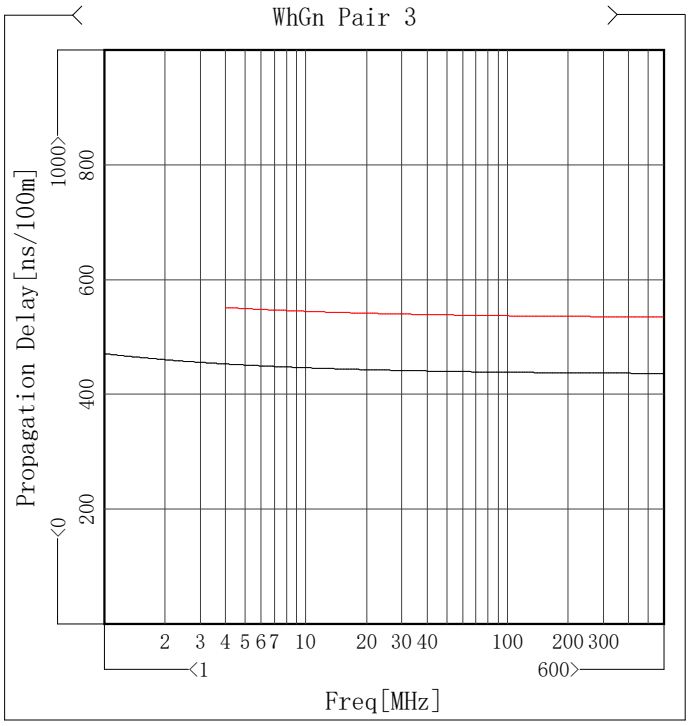


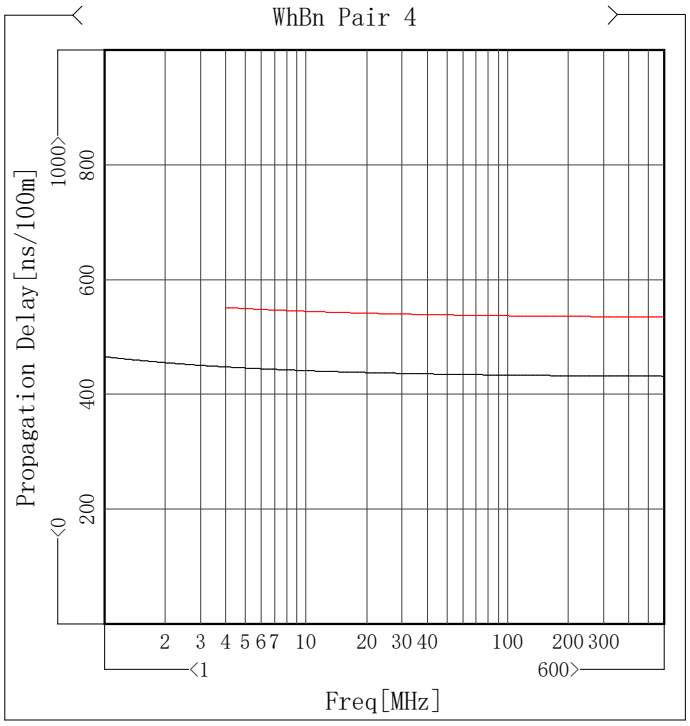
Propagation Delay

Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBu Pair 1	457.37	4.13	551.71	94.34
WhOg Pair 2	452.44	4.33	551.29	98.85
WhGn Pair 3	453.05	4.33	551.29	98.24
WhBn Pair 4	432.21	550.35	535.53	103.32



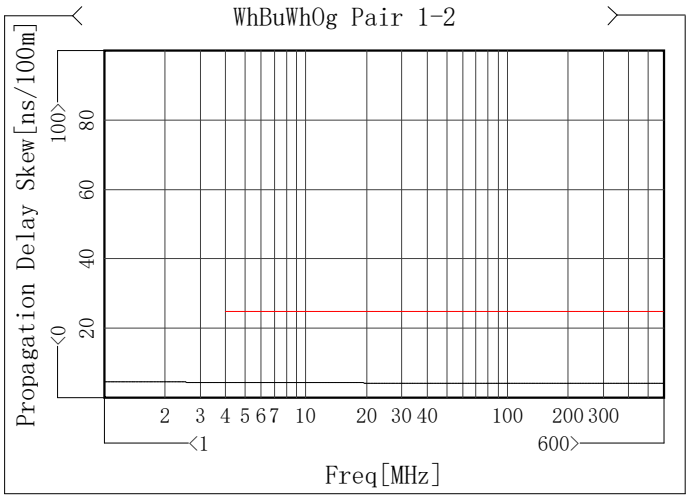


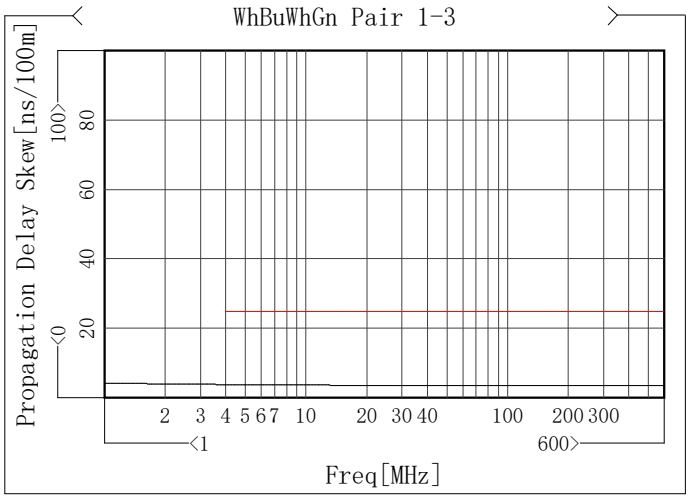


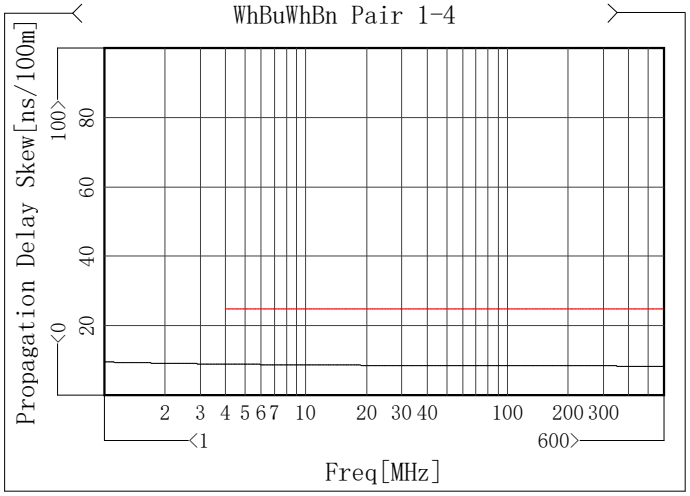


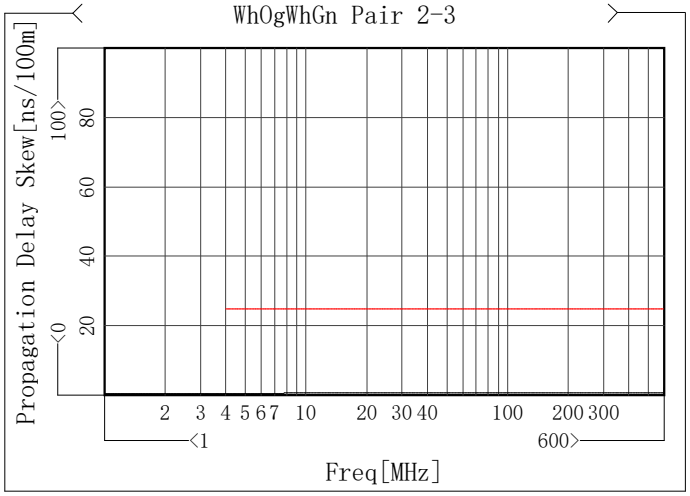
Propagation Delay Skew

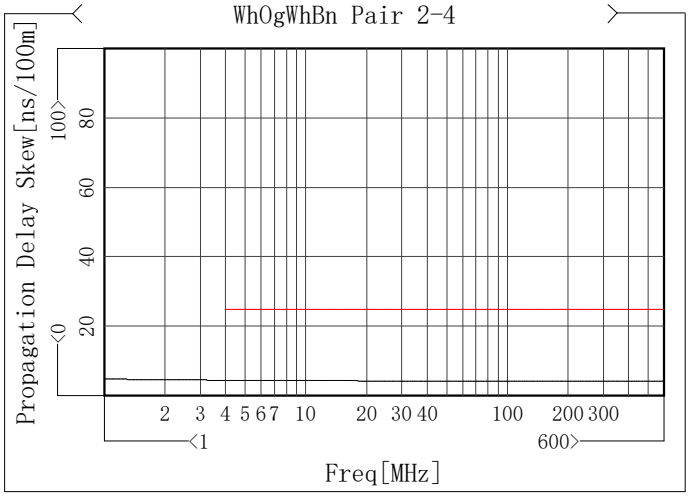
Item	Max [ns/100m]	Freq[MHz]	Spec [ns/100m]	Margin [ns/100m]
WhBuWhOg Pair 1-2	4.51	4.07	25.00	20.49
WhBuWhGn Pair 1-3	3.90	4.07	25.00	21.10
WhBuWhBn Pair 1-4	9.04	4.13	25.00	15.96
WhOgWhGn Pair 2-3	0.75	600.00	25.00	24.25
WhOgWhBn Pair 2-4	4.54	4.07	25.00	20.46
WhGnWhBn Pair 3-4	5.15	4.07	25.00	19.85

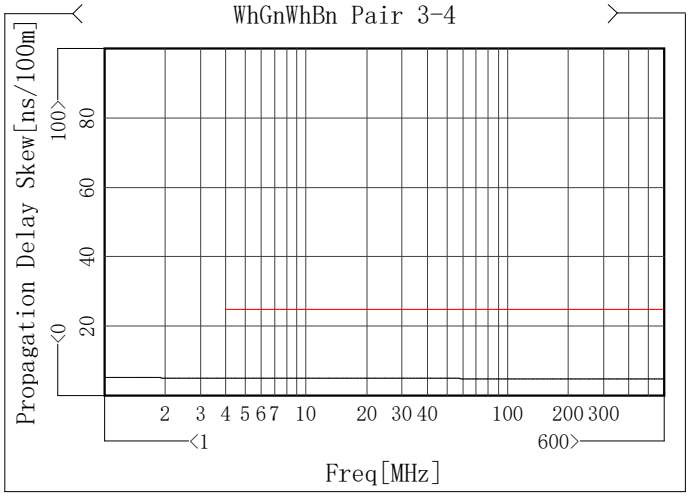






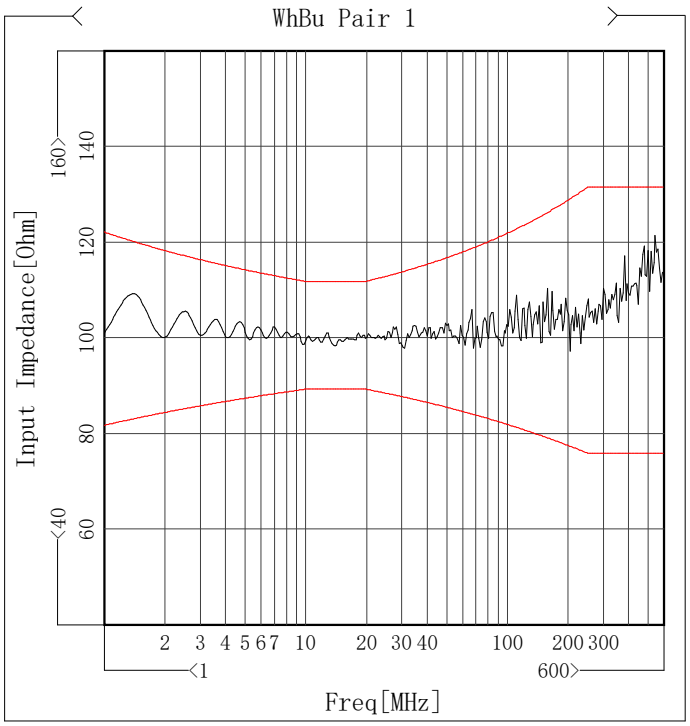


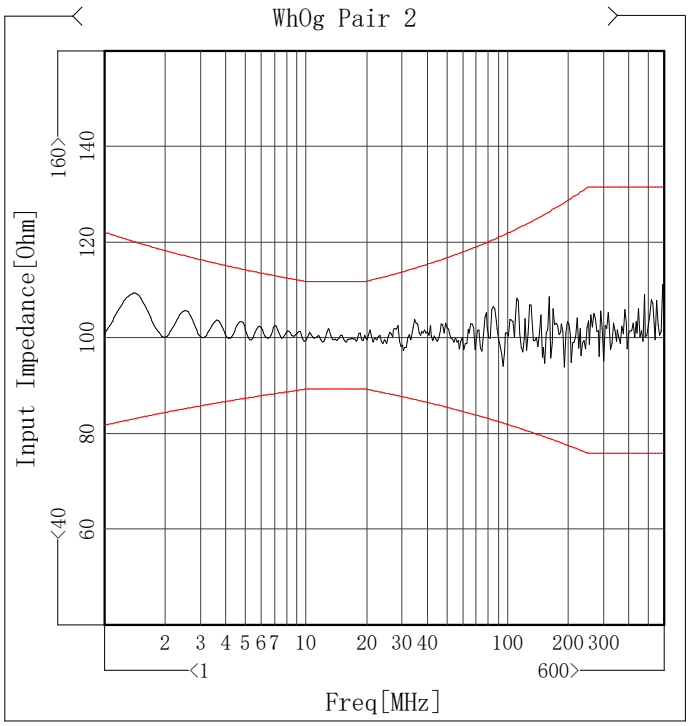


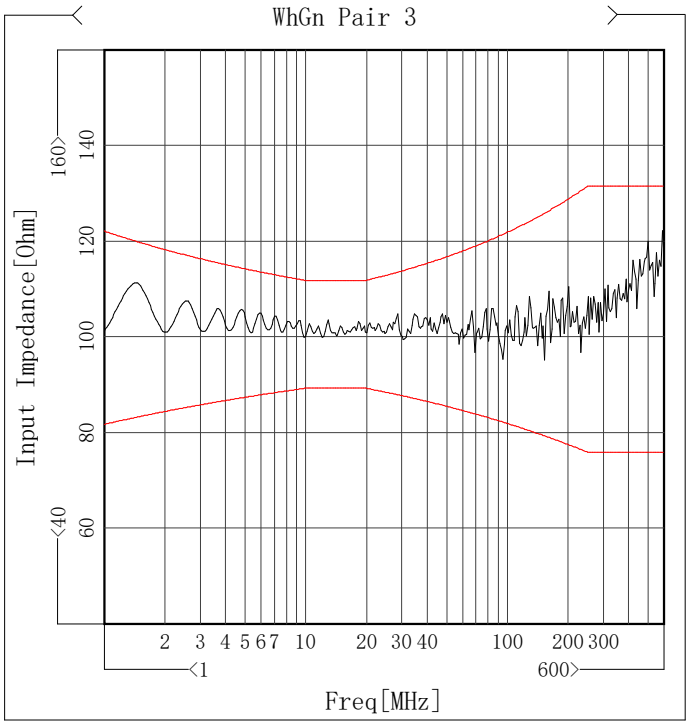


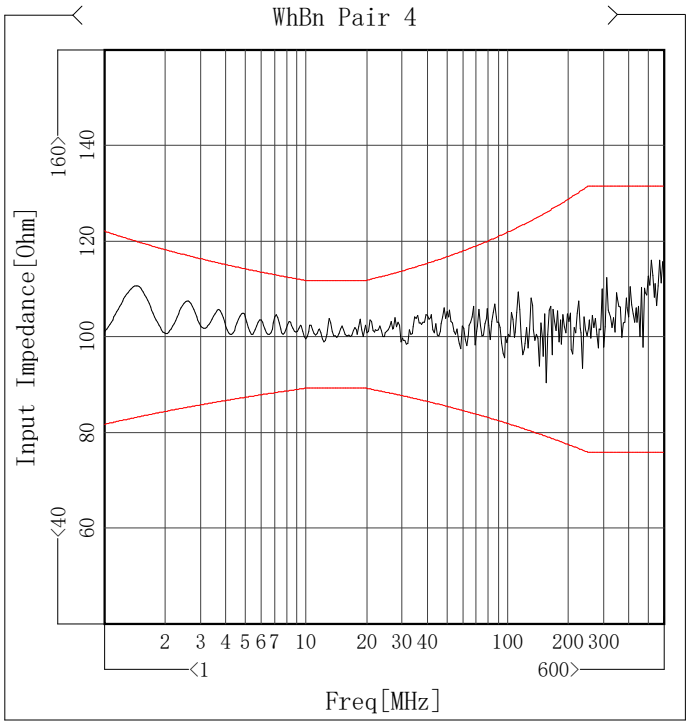
Input Impedance

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
WhBu Pair 1	121.55	550.35	131.60	10.05	98.41	14.13	89.35	9.06
WhOg Pair 2	102.12	12.92	111.92	9.80	97.50	30.94	87.70	9.80
WhGn Pair 3	103.65	12.92	111.92	8.27	100.01	12.19	89.35	10.66
WhBn Pair 4	104.00	13.16	111.92	7.92	99.01	12.36	89.35	9.66



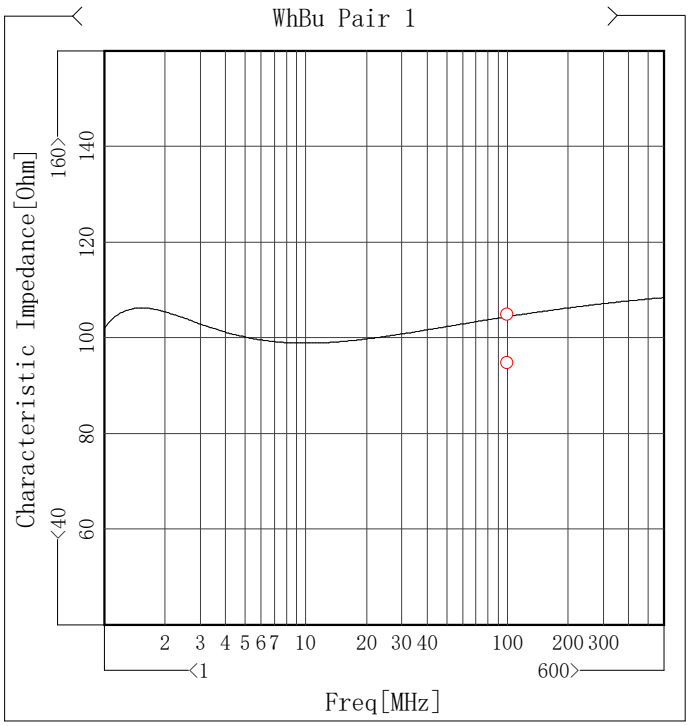


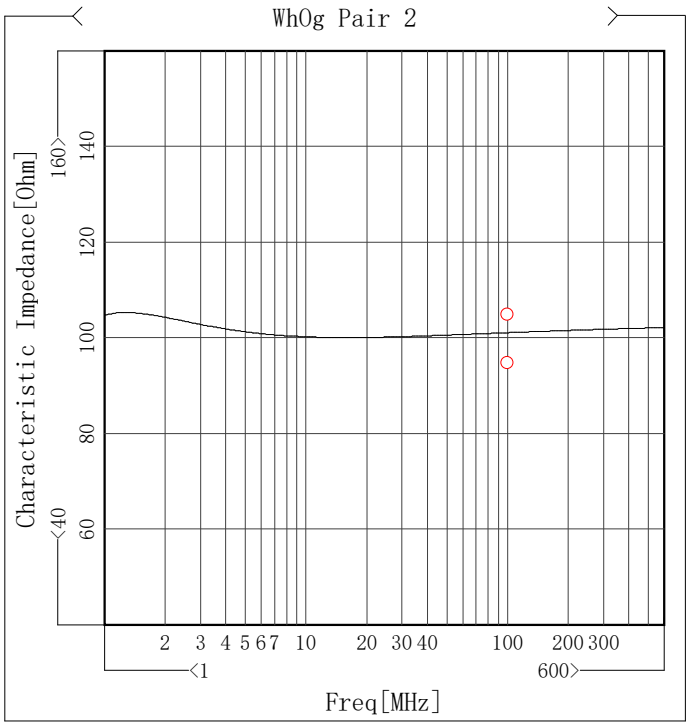


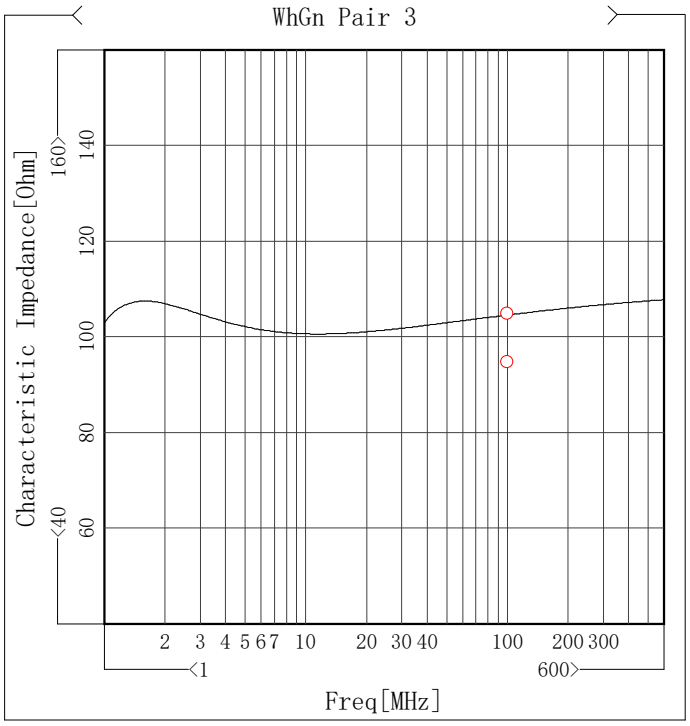


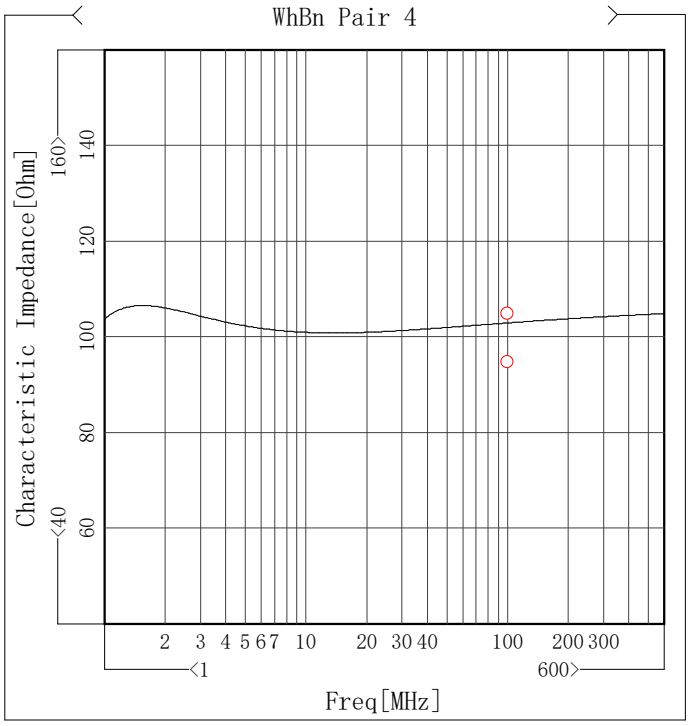
Characteristic Impedance

Item	Max [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]	Min [Ohm]	Freq[MHz]	Spec [Ohm]	Margin [Ohm]
WhBu Pair 1	104.49	100.00	105.00	0.51	104.49	100.00	95.00	9.49
WhOg Pair 2	101.16	100.00	105.00	3.84	101.16	100.00	95.00	6.16
WhGn Pair 3	104.64	100.00	105.00	0.36	104.64	100.00	95.00	9.64
WhBn Pair 4	102.99	100.00	105.00	2.01	102.99	100.00	95.00	7.99



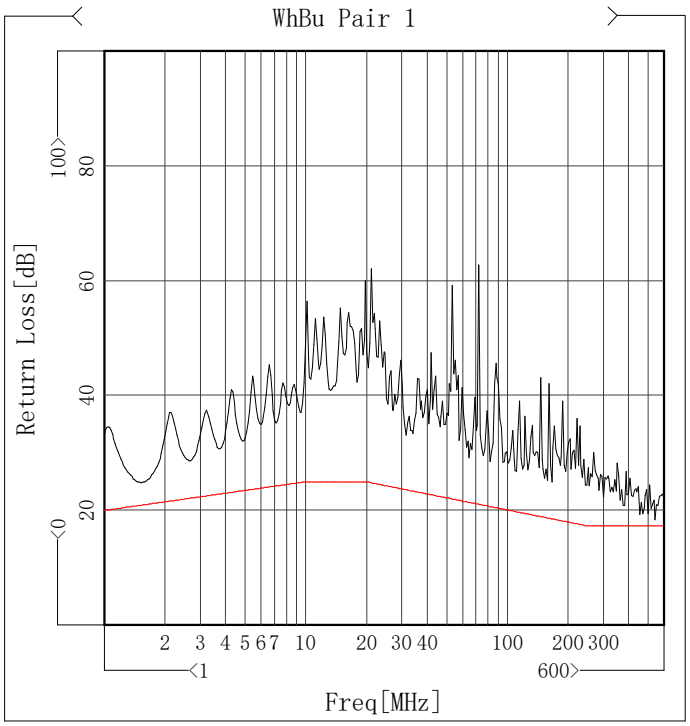


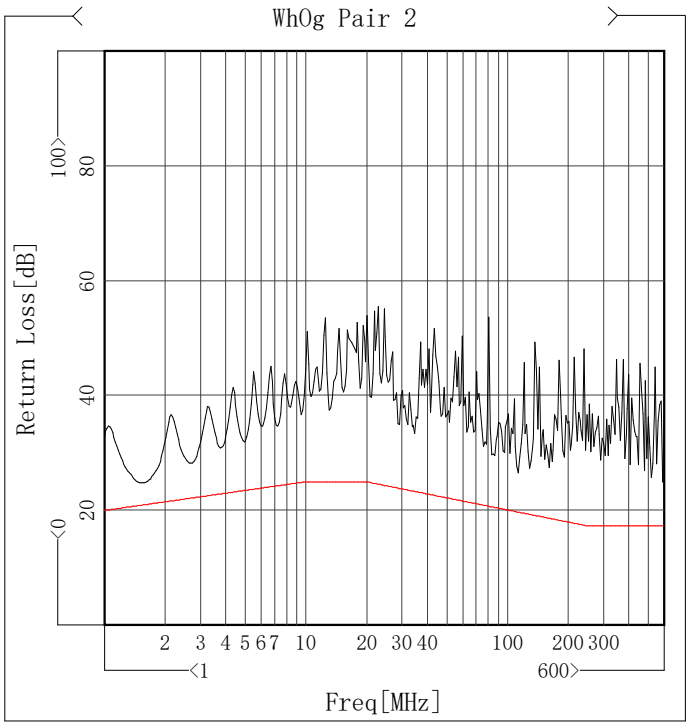


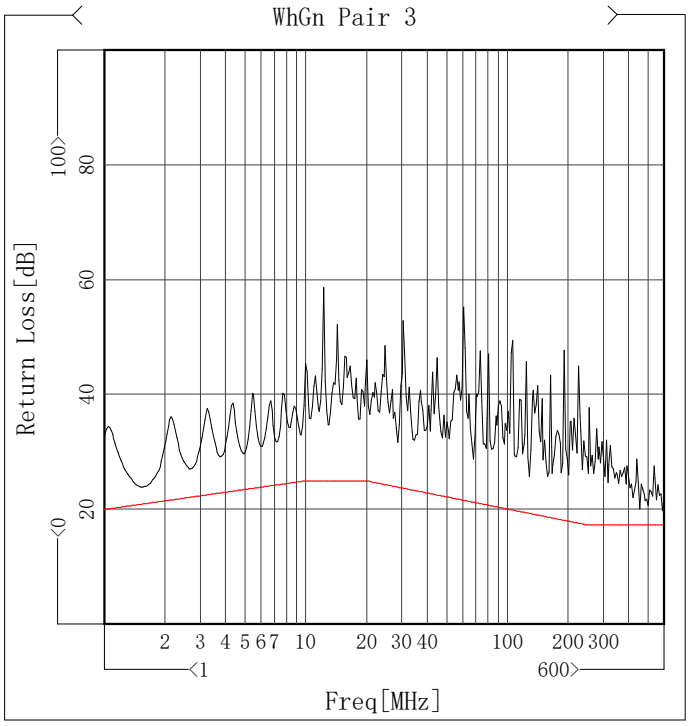


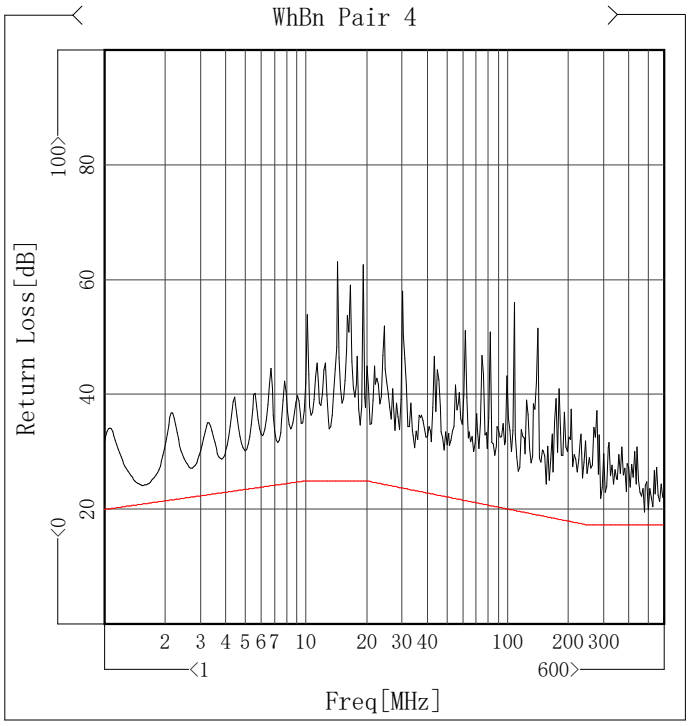
Return Loss

Item	Min [dB]	Freq[MHz]	Spec [dB]	Margin [dB]
WhBu Pair 1	18.42	550.35	17.30	1.12
WhOg Pair 2	24.84	1.58	21.00	3.84
WhGn Pair 3	19.86	591.73	17.30	2.56
WhBn Pair 4	19.53	484.15	17.30	2.23



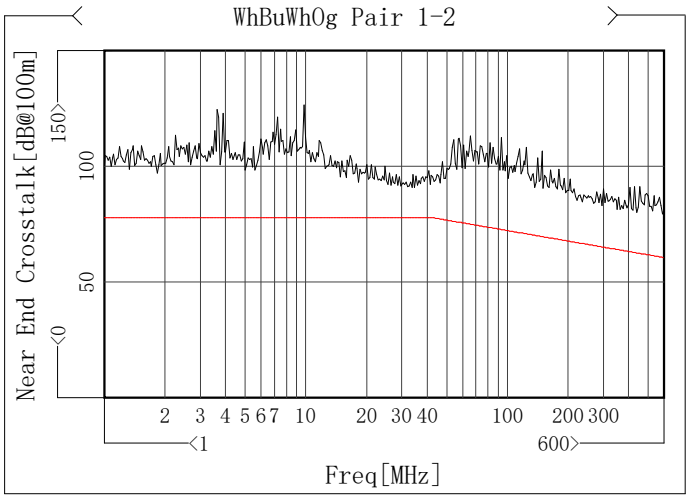


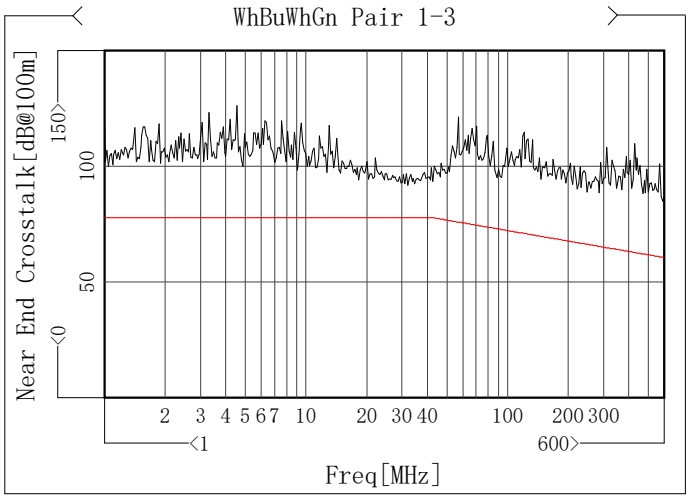


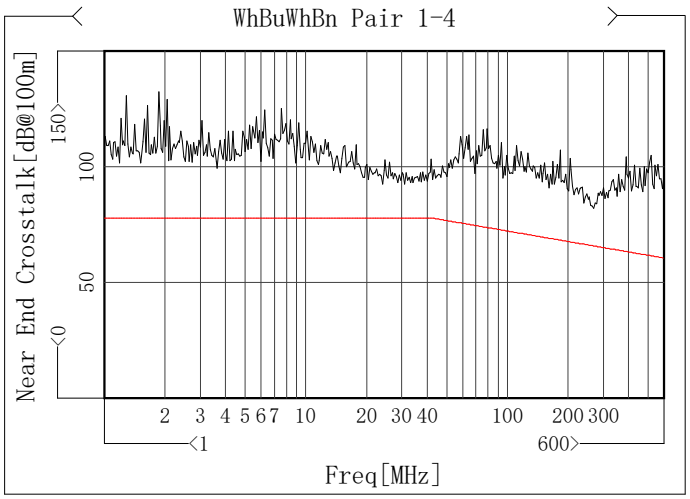


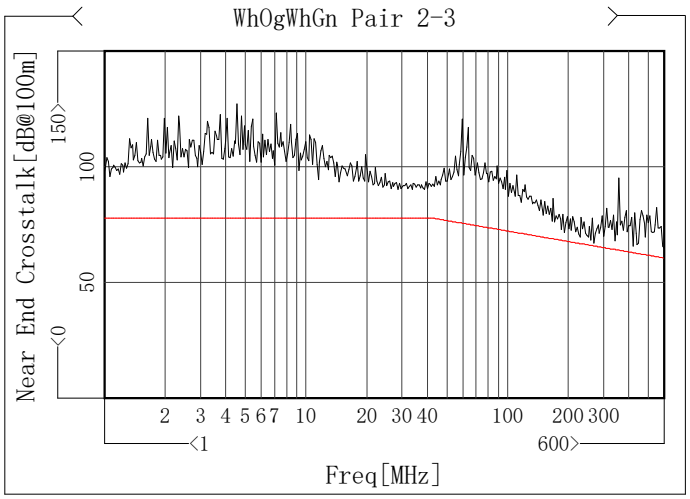
Near End Crosstalk

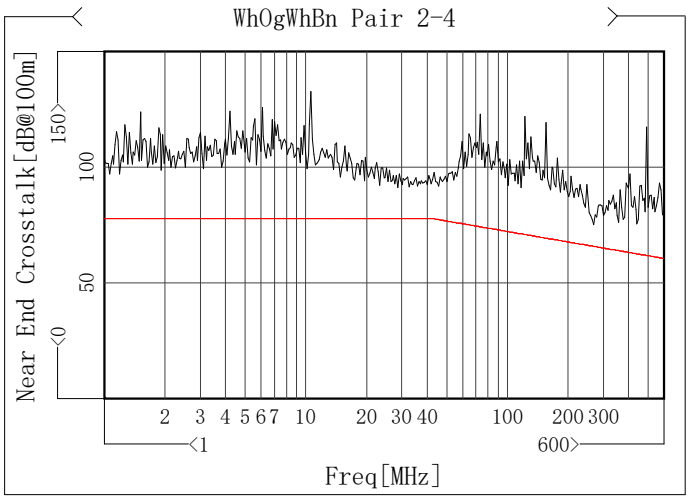
Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	90.98	34.91	78.00	12.98
WhBuWhGn Pair 1-3	91.97	32.33	78.00	13.97
WhBuWhBn Pair 1-4	92.60	31.40	78.00	14.60
WhOgWhGn Pair 2-3	67.06	272.83	65.86	1.20
WhOgWhBn Pair 2-4	75.28	272.83	65.86	9.42
WhGnWhBn Pair 3-4	66.65	272.83	65.86	0.79

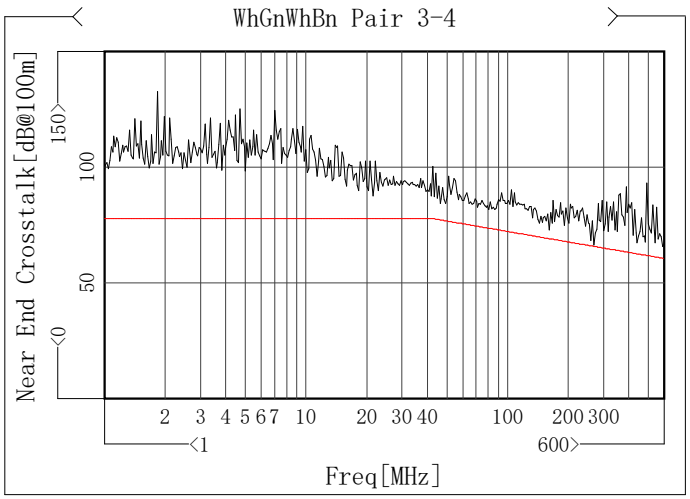






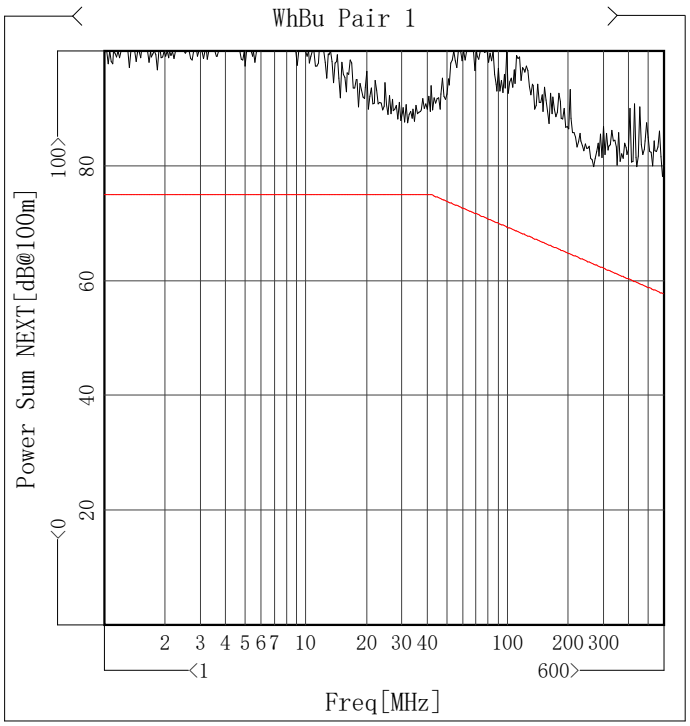


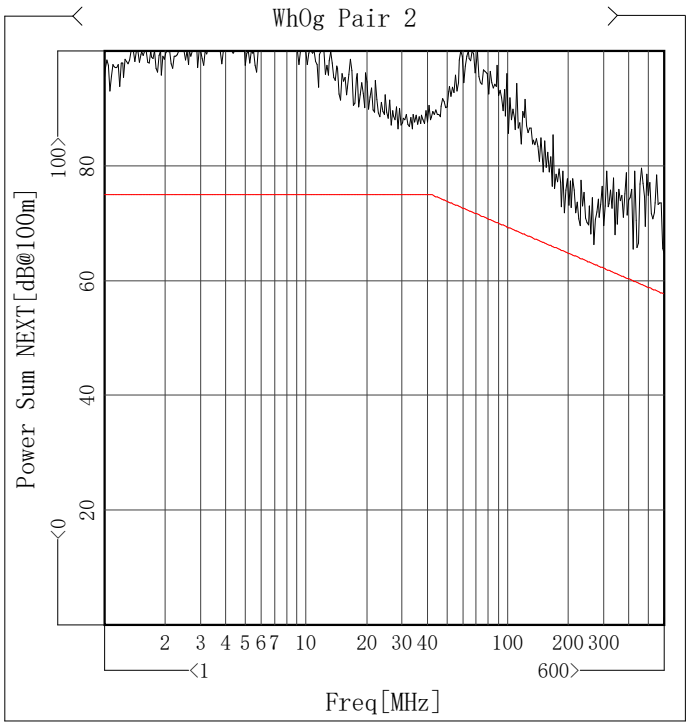


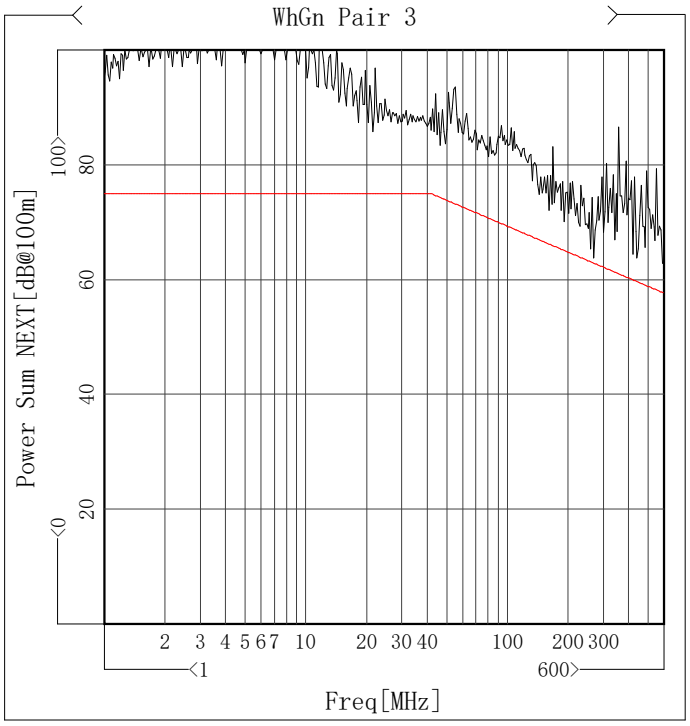


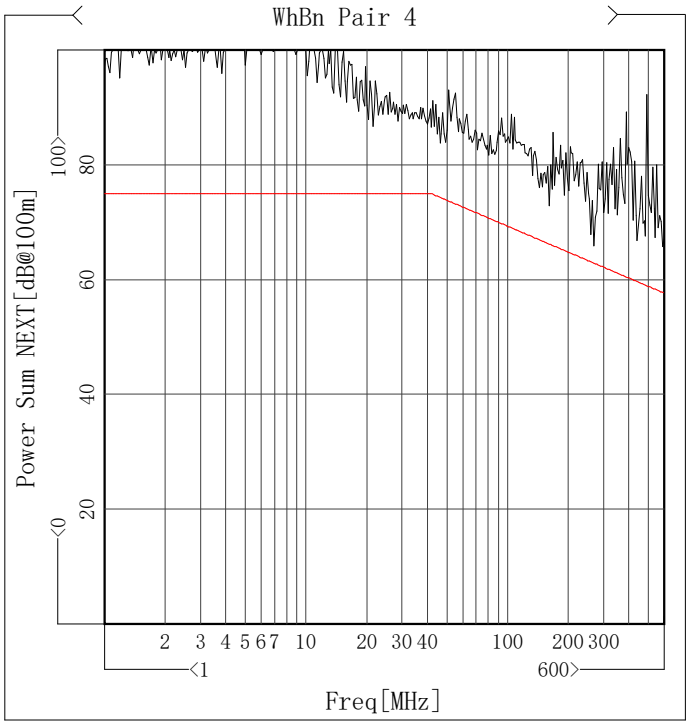
Power Sum NEXT

Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	87.57	32.33	75.00	12.57
WhOg Pair 2	66.38	272.83	62.86	3.52
WhGn Pair 3	63.84	272.83	62.86	0.98
WhBn Pair 4	65.99	272.83	62.86	3.13



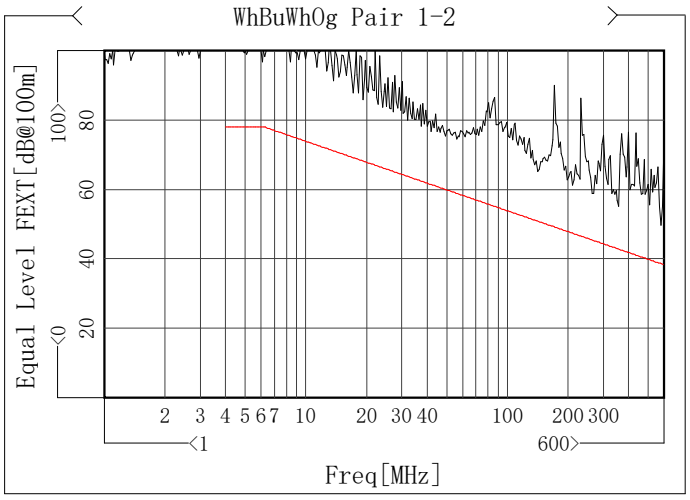


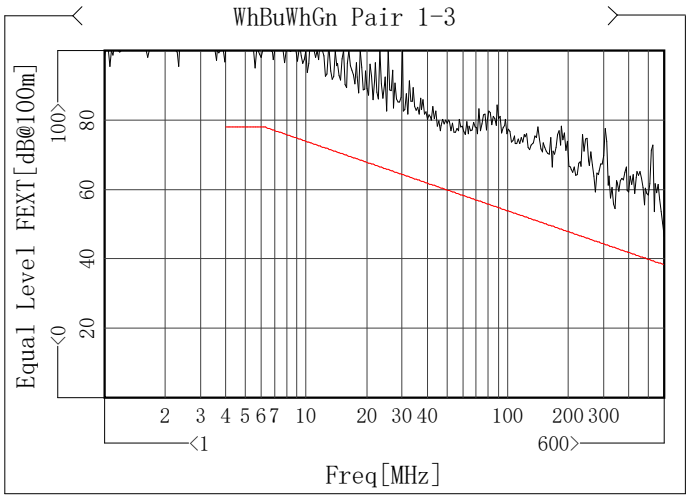


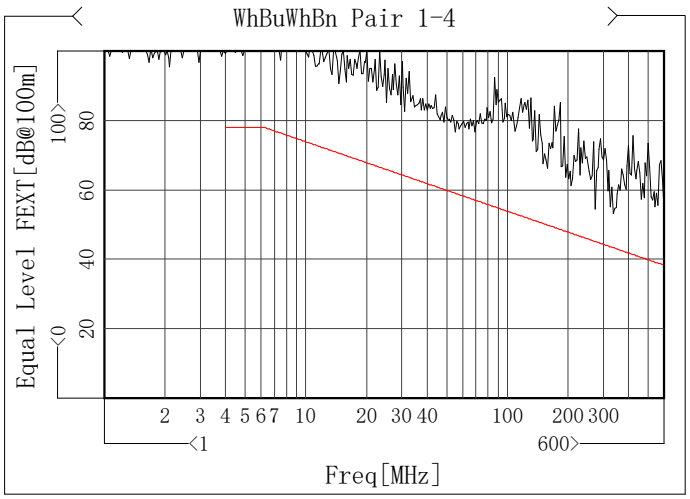


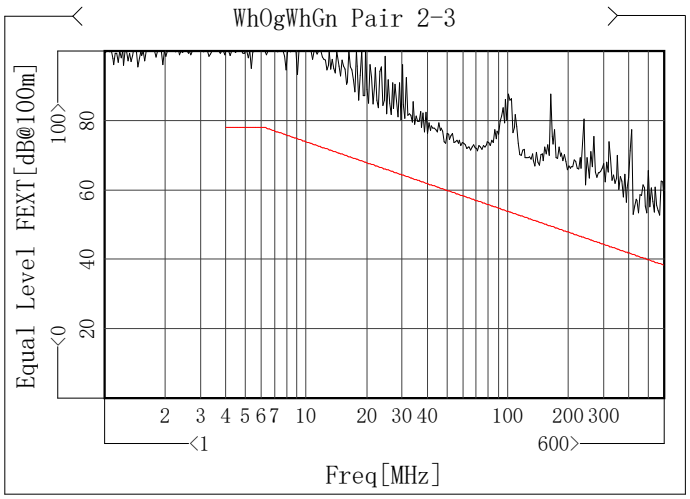
Equal Level FEXT

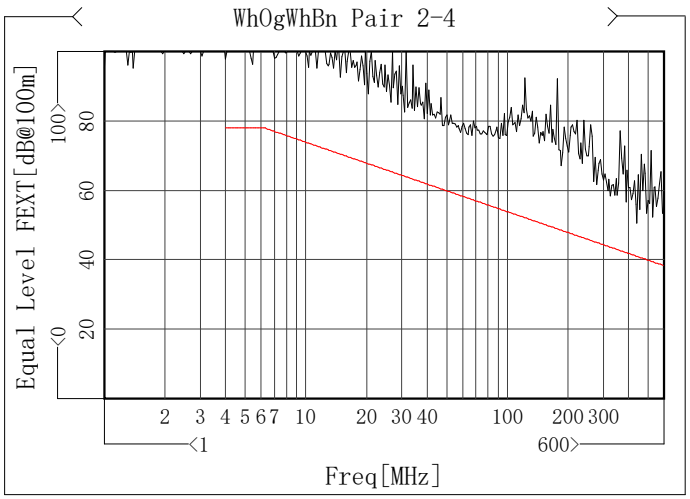
Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBuWhOg Pair 1-2	49.83	583.45	38.68	11.15
WhBuWhGn Pair 1-3	46.58	600.00	38.44	8.14
WhBuWhBn Pair 1-4	54.48	277.19	45.14	9.34
WhOgWhGn Pair 2-3	52.99	423.74	41.46	11.53
WhOgWhBn Pair 2-4	50.55	442.78	41.08	9.47
WhGnWhBn Pair 3-4	46.80	575.18	38.80	8.00

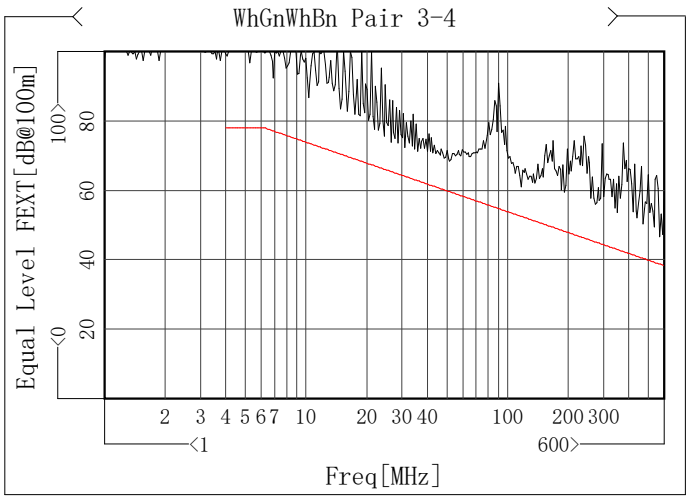






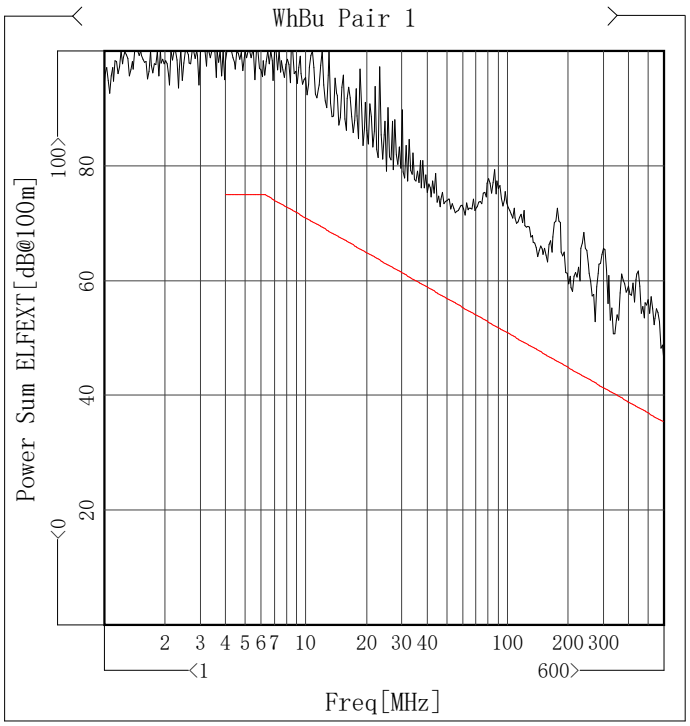


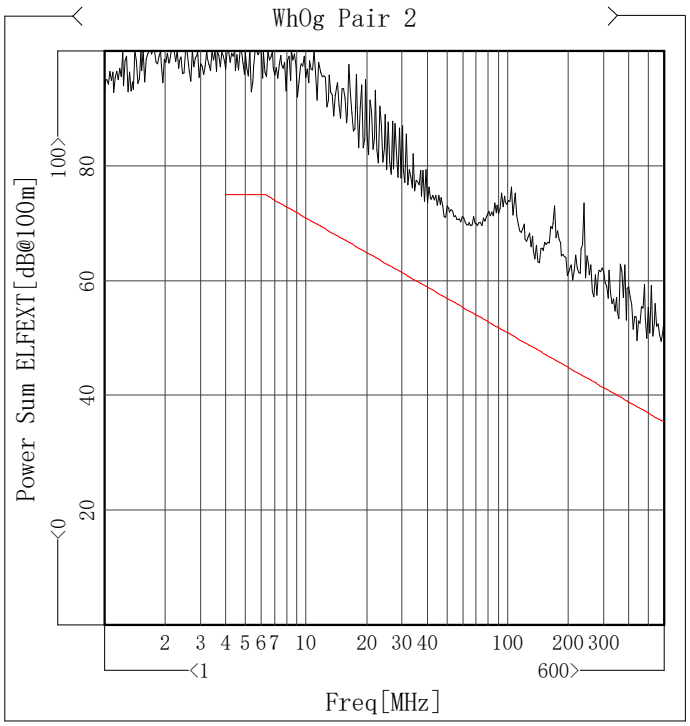


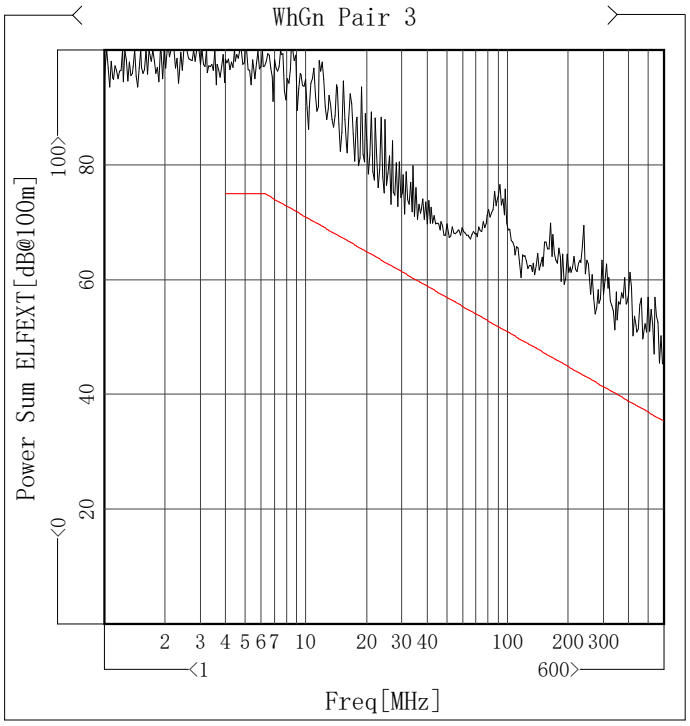


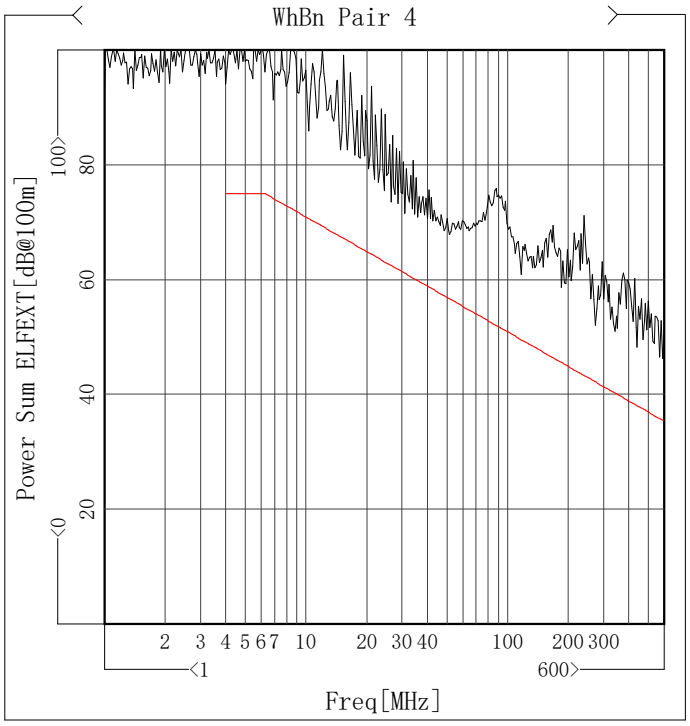
Power Sum ELFEXT

Item	Min [dB@100m]	Freq[MHz]	Spec [dB@100m]	Margin [dB@100m]
WhBu Pair 1	50.84	339.60	40.38	10.46
WhOg Pair 2	49.60	442.78	38.08	11.52
WhGn Pair 3	45.54	575.18	35.80	9.74
WhBn Pair 4	52.14	277.19	42.14	10.00









Attenuation[dB/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	2.01	1.97 ↑	1.95	1.93	1.96
2	4	3.74	3.64 ↑	3.58	3.52	3.54
3	8	5.24	5.05 ↑	4.97	4.90	4.90
4	10	5.86	5.64 ↑	5.55	5.47	5.47
5	16	7.41	7.22 ↑	7.12	7.04	7.03
6	20	8.29	8.14 ↑	8.05	7.95	7.96
7	25	9.29	9.19 ↑	9.08	8.97	8.97
8	31.25	10.41	10.36 ↑	10.26	10.12	10.12
9	50	13.26	13.17 ↑	13.02	12.83	12.86
10	62.5	14.88	14.73 ↑	14.52	14.33	14.32
11	100	19.02	18.69 ↑	18.44	18.21	18.19
12	125	21.39	20.94 ↑	20.69	20.34	20.42
13	200	27.47	26.65 ↑	26.22	25.88	25.93
14	250	30.97	29.85 ↑	29.41	29.00	29.04
15	300	34.19	32.77 ↑	32.24	31.84	31.91
16	350	37.19	35.54 ↑	34.90	34.57	34.57
17	400	40.01	38.05 ↑	37.44	36.96	36.91
18	450	42.69	40.36 ↑	39.76	39.31	39.30
19	500	45.26	42.64 ↑	41.85	41.51	41.57
20	550	47.72	44.86 ↑	44.01	43.59	43.62
21	600	50.1	46.91 ↑	46.08	45.88	45.98

Propagation Delay[ns/100m]

No.	Freq [MHz]	Spec (Max)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	476.01 ↑	471.23	471.68	466.36
2	4	552	457.66 ↑	453.15	453.76	448.61
3	8	546.73	452.23 ↑	447.80	448.46	443.36
4	10	545.38	450.82 ↑	446.42	447.08	442.00
5	16	543	448.38 ↑	444.01	444.70	439.64
6	20	542.05	447.41 ↑	443.05	443.75	438.70
7	25	541.2	446.49 ↑	442.15	442.85	437.82
8	31.25	540.44	445.74 ↑	441.41	442.12	437.09
9	50	539.09	444.35 ↑	440.04	440.76	435.74
10	62.5	538.55	443.79 ↑	439.48	440.21	435.20
11	100	537.6	442.82 ↑	438.53	439.26	434.27
12	125	537.22	442.41 ↑	438.13	438.87	433.87
13	200	536.55	441.73 ↑	437.46	438.20	433.22
14	250	536.28	441.45 ↑	437.18	437.93	432.94
15	300	536.08	441.25 ↑	436.98	437.73	432.75
16	350	535.92	441.09 ↑	436.83	437.58	432.59
17	400	535.8	440.96 ↑	436.70	437.45	432.47
18	450	535.7	440.85 ↑	436.59	437.34	432.36
19	500	535.61	440.77 ↑	436.51	437.26	432.28
20	550	535.54	440.69 ↑	436.43	437.19	432.21
21	600	535.47	440.62 ↑	436.36	437.11	432.14

Propagation 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	\	4.78	4.32	9.65 ↑	0.45	4.88	5.33
2	4	25	4.51	3.90	9.05 ↑	0.61	4.54	5.15
3	8	25	4.43	3.77	8.87 ↑	0.65	4.44	5.09
4	10	25	4.41	3.74	8.82 ↑	0.67	4.41	5.08
5	16	25	4.37	3.68	8.74 ↑	0.69	4.37	5.06
6	20	25	4.36	3.66	8.71 ↑	0.69	4.35	5.05
7	25	25	4.34	3.64	8.68 ↑	0.70	4.33	5.04
8	31.25	25	4.33	3.62	8.65 ↑	0.71	4.32	5.03
9	50	25	4.31	3.59	8.61 ↑	0.72	4.29	5.01
10	62.5	25	4.30	3.58	8.59 ↑	0.73	4.28	5.01
11	100	25	4.29	3.55	8.55 ↑	0.73	4.27	5.00
12	125	25	4.28	3.55	8.54 ↑	0.74	4.26	5.00
13	200	25	4.27	3.53	8.52 ↑	0.74	4.25	4.99
14	250	25	4.27	3.52	8.51 ↑	0.75	4.24	4.99
15	300	25	4.27	3.52	8.50 ↑	0.75	4.24	4.98
16	350	25	4.26	3.51	8.50 ↑	0.75	4.23	4.98
17	400	25	4.26	3.51	8.49 ↑	0.75	4.23	4.98
18	450	25	4.26	3.51	8.49 ↑	0.75	4.23	4.98
19	500	25	4.26	3.51	8.49 ↑	0.75	4.23	4.98
20	550	25	4.26	3.51	8.48 ↑	0.75	4.23	4.98
21	600	25	4.26	3.50	8.48 ↑	0.75	4.23	4.98

Input Impedance[Ohm]

No.	Freq [MHz]	Spec		WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
		(Max)	(Min)				
1	1	122.22	81.82	101.01	100.91 ↓	101.34 ↑	101.06
2	4	115.22	86.79	100.81 ↓	101.15	103.36 ↑	103.15
3	8	112.64	88.78	101.00	100.73 ↓	102.03 ↑	101.20
4	10	111.92	89.35	99.06 ↓	99.41	100.14 ↑	99.88
5	16	111.92	89.35	99.88	99.19 ↓	100.89 ↑	100.35
6	20	111.92	89.35	100.28 ↓	100.34	101.61	102.23 ↑
7	25	112.95	88.54	99.80	99.36 ↓	100.85	101.02 ↑
8	31.25	114.07	87.66	98.01	97.85 ↓	99.66 ↑	99.35
9	50	116.8	85.62	103.09	102.93 ↓	104.30 ↑	104.23
10	62.5	118.29	84.54	99.48	98.85 ↓	100.54 ↑	99.08
11	100	121.92	82.02	101.64	101.07	101.65 ↑	99.73 ↓
12	125	123.91	80.7	100.61	98.90 ↓	101.07	101.30 ↑
13	200	128.8	77.64	106.83 ↑	102.53 ↓	105.71	103.23
14	250	131.51	76.04	106.27 ↑	101.17	104.00	100.56 ↓
15	300	131.6	75.99	105.43	100.54 ↓	103.77	107.36 ↑
16	350	131.6	75.99	110.87 ↑	99.96 ↓	105.65	107.09
17	400	131.6	75.99	111.36 ↑	97.92 ↓	107.58	106.04
18	450	131.6	75.99	107.64	105.52 ↓	111.07 ↑	106.09
19	500	131.6	75.99	112.94	100.64 ↓	116.68 ↑	108.86
20	550	131.6	75.99	121.31 ↑	99.75 ↓	111.13	111.08
21	600	131.6	75.99	113.98	103.05 ↓	116.96 ↑	112.69

Characteristic Impedance[Ohm]

No.	Freq [MHz]	Spec (Max)	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	\	101.86 ↓	104.75 ↑	102.80	103.63
2	4	\	\	101.35 ↓	101.98	103.30 ↑	103.23
3	8	\	\	99.11 ↓	100.54	100.98	101.31 ↑
4	10	\	\	98.98 ↓	100.32	100.74	101.05 ↑
5	16	\	\	99.40 ↓	100.15	100.86	100.94 ↑
6	20	\	\	99.84 ↓	100.18	101.14 ↑	101.04
7	25	\	\	100.38	100.25 ↓	101.51 ↑	101.22
8	31.25	\	\	101.00	100.36 ↓	101.96 ↑	101.45
9	50	\	\	102.41	100.66 ↓	103.02 ↑	102.04
10	62.5	\	\	103.09	100.82 ↓	103.55 ↑	102.35
11	100	105	95	104.49	101.16 ↓	104.64 ↑	102.99
12	125	\	\	105.11	101.32 ↓	105.13 ↑	103.28
13	200	\	\	106.31 ↑	101.63 ↓	106.09	103.86
14	250	\	\	106.83 ↑	101.77 ↓	106.50	104.11
15	300	\	\	107.22 ↑	101.88 ↓	106.81	104.31
16	350	\	\	107.53 ↑	101.96 ↓	107.07	104.46
17	400	\	\	107.79 ↑	102.03 ↓	107.27	104.59
18	450	\	\	108.01 ↑	102.09 ↓	107.45	104.69
19	500	\	\	108.20 ↑	102.14 ↓	107.60	104.79
20	550	\	\	108.36 ↑	102.19 ↓	107.73	104.87
21	600	\	\	108.50 ↑	102.23 ↓	107.85	104.94

Return Loss[dB]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	20	33.17	32.89	32.47	31.73 ↓
2	4	23.01	32.54	31.98	30.30	29.48 ↓
3	8	24.52	41.02	43.27	39.18 ↓	41.77
4	10	25	45.88	42.42	41.92	39.78 ↓
5	16	25	48.02	43.92 ↓	46.52	46.58
6	20	25	55.84	47.40	40.30	38.46 ↓
7	25	24.32	45.47	48.78	47.11	43.91 ↓
8	31.25	23.64	35.94 ↓	38.19	48.96	47.66
9	50	22.21	35.31	36.38	33.13 ↓	33.16
10	62.5	21.54	32.97 ↓	37.52	44.15	46.92
11	100	20.11	30.04 ↓	34.90	34.60	35.28
12	125	19.43	31.46 ↓	34.63	43.15	37.12
13	200	18	28.76 ↓	35.81	29.58	30.46
14	250	17.32	24.43 ↓	35.31	29.24	27.61
15	300	17.3	25.10 ↓	32.40	31.12	25.14
16	350	17.3	23.95 ↓	42.79	26.18	25.76
17	400	17.3	22.76 ↓	38.10	27.57	27.94
18	450	17.3	24.00 ↓	28.59	25.18	25.85
19	500	17.3	23.56	30.19	21.73 ↓	24.80
20	550	17.3	18.56 ↓	44.67	25.56	22.95
21	600	17.3	22.21	36.35	22.14	21.84 ↓

Near End Crosstalk[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	78	100.52	118.28	107.97	98.21 ↓	103.90	98.93
2	4	78	106.26	106.08	111.86	108.22	110.33	105.50 ↓
3	8	78	106.11	105.48	116.69	105.41 ↓	111.91	105.83
4	10	78	119.39	106.38	110.32	109.27	112.21	105.38 ↓
5	16	78	95.96	99.27	102.48	97.83	102.86	92.74 ↓
6	20	78	97.35 ↓	97.89	98.05	100.82	100.40	99.82
7	25	78	98.58	96.87	101.53	95.91	96.54	95.15 ↓
8	31.25	78	92.38	93.83	94.03	92.06 ↓	94.92	94.23
9	50	76.92	95.87	97.12	97.28	93.99	95.85	84.96 ↓
10	62.5	75.46	101.98	109.96	110.09	105.84	104.42	88.29 ↓
11	100	72.4	100.16	104.42	99.12	92.93	97.39	84.58 ↓
12	125	70.95	106.71	109.48	98.39	88.23	107.68	82.13 ↓
13	200	67.88	89.34	95.35	93.25	77.48 ↓	91.40	79.99
14	250	66.43	86.66	90.90	87.99	70.58 ↓	90.43	78.31
15	300	65.24	84.70	93.08	88.57	76.92 ↓	82.55	82.88
16	350	64.24	85.54	92.75	90.83	74.27 ↓	84.13	78.89
17	400	63.37	82.39	97.65	96.81	72.08 ↓	92.16	80.72
18	450	62.6	82.17	97.60	91.09	67.01 ↓	77.41	70.00
19	500	61.92	88.20	98.09	98.57	78.37 ↓	114.45	91.10
20	550	61.29	83.43	92.65	100.48	75.01	81.20	67.74 ↓
21	600	60.73	81.95	87.51	96.98	64.92 ↓	81.51	67.28

Power Sum NEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	75	99.74	95.52	95.52 ↓	97.33
2	4	75	102.59	103.18	101.65 ↓	103.50
3	8	75	102.29	101.99	100.72 ↓	104.57
4	10	75	104.57	105.80	101.75 ↓	102.67
5	16	75	93.53	93.21	90.86 ↓	91.85
6	20	75	92.91 ↓	93.76	94.08	94.37
7	25	75	93.62	91.69	91.00 ↓	91.96
8	31.25	75	88.50	88.17 ↓	88.41	89.49
9	50	73.92	91.83	90.27	84.20 ↓	84.33
10	62.5	72.46	100.30	98.08	88.18	88.12 ↓
11	100	69.4	95.90	91.00	83.79 ↓	84.14
12	125	67.95	97.17	88.01	81.10 ↓	82.00
13	200	64.88	86.82	77.00	75.21 ↓	79.50
14	250	63.43	83.22	70.39	69.76 ↓	77.57
15	300	62.24	82.70	74.96 ↓	75.74	78.59
16	350	61.24	83.70	73.43	72.89 ↓	77.42
17	400	60.37	82.11	71.65	71.51 ↓	80.30
18	450	59.6	81.51	66.51	65.23 ↓	69.25
19	500	58.92	87.31	77.88	77.83 ↓	90.16
20	550	58.29	82.80	73.55	66.93 ↓	67.54
21	600	57.73	80.78	64.75	62.92 ↓	67.12

Equal Level FEXT[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	\	99.32	98.48	100.63	101.09	95.30 ↓	98.23
2	4	78	114.88	97.43 ↓	99.62	99.34	105.06	105.12
3	8	75.94	111.41	97.66	102.71	97.35	105.59	97.28 ↓
4	10	74	100.32	98.77	104.87	102.66	104.14	97.59 ↓
5	16	69.92	93.66	89.62	92.13	91.65	95.53	88.35 ↓
6	20	67.98	95.08	92.06	96.90	96.52	97.01	87.42 ↓
7	25	66.04	88.97	90.13	94.60	94.66	94.35	87.92 ↓
8	31.25	64.1	82.38	83.03	84.87	81.94	84.32	75.58 ↓
9	50	60.02	75.86	79.82	83.38	74.15	81.33	69.93 ↓
10	62.5	58.08	75.87	77.29	78.57	72.62	77.47	70.81 ↓
11	100	54	78.56	79.03	83.88	84.34	76.07 ↓	76.41
12	125	52.06	70.72	75.99	83.81	69.38	85.49	65.10 ↓
13	200	47.98	64.55 ↓	72.94	65.94	66.90	73.78	67.60
14	250	46.04	68.46	74.85	69.47	67.55	70.41	66.94 ↓
15	300	44.46	73.69	67.92	69.43	66.73	64.48 ↓	70.07
16	350	43.12	59.56	60.43	54.88 ↓	63.13	62.21	60.13
17	400	41.96	66.97	59.72 ↓	67.19	60.82	65.70	62.86
18	450	40.94	68.74	64.23	67.96	53.96 ↓	62.76	55.75
19	500	40.02	59.78	59.16	64.47	53.69 ↓	54.42	56.29
20	550	39.19	60.81	61.32	55.32 ↓	60.51	61.10	62.68
21	600	38.44	74.27	46.58 ↓	54.75	57.08	56.54	57.64

Power Sum ELFEXT[dB@100m]

No.	Freq [MHz]	Spec (Min)	WhBu Pair 1	WhOg Pair 2	WhGn Pair 3	WhBn Pair 4
1	1	\	94.62	93.10	94.32	92.74 ↓
2	4	75	95.14	97.98	94.62 ↓	97.63
3	8	72.94	96.11	96.50	92.44 ↓	95.46
4	10	71	95.28	97.20	94.39 ↓	95.82
5	16	66.92	86.68	88.53	84.70 ↓	86.21
6	20	64.98	89.32	90.86	85.55 ↓	86.35
7	25	63.04	85.78	86.68	85.24 ↓	86.29
8	31.25	61.1	78.31	77.86	73.70 ↓	74.53
9	50	57.02	73.83	71.43	68.21 ↓	69.43
10	62.5	55.08	72.30	70.03	68.01 ↓	69.39
11	100	51	74.97	73.62	74.06	72.62 ↓
12	125	49.06	69.42	66.91	63.46 ↓	64.99
13	200	44.98	61.45 ↓	62.22	62.75	62.85
14	250	43.04	65.38	63.44	62.85 ↓	63.62
15	300	41.46	64.91	62.08	62.08	61.74 ↓
16	350	40.12	52.56 ↓	56.53	56.15	52.97
17	400	38.96	58.30	58.75	56.16 ↓	59.98
18	450	37.94	61.69	52.63	51.34 ↓	54.51
19	500	37.02	55.79	50.29 ↓	51.05	51.76
20	550	36.19	53.32 ↓	55.94	56.60	53.45
21	600	35.44	45.95	53.75	45.90 ↓	51.38