



Pt	Time	Freq	Zreal	Zimag	Zsig	Zmod	Zphz	Idc	Vdc	IERanç z'	cap
57978	s	Hz	ohm	ohm	V	ohm	°	A	V	#	
0	6	100007	0.097994	0.04127	1	0.10633	22.8382	-4.42E-05	2.26442	11	0.04127 3.86E-05
1	8	63105.5	0.077925	0.024	1	0.081537	17.1186	2.40E-05	1.99953	11	0.024 0.000105
2	10	39811.2	0.063436	0.01207	1	0.064574	10.7726	-0.00012	1.99949	11	0.01207 0.000331
3	14	25123.7	0.053964	0.001487	1	0.053985	1.5781	-0.000156	1.99945	11	0.001487 0.004262
4	18	15852.9	0.050525	-0.008283	1	0.051199	-9.31001	-0.000193	1.99943	11	0.008283 0.001213
5	22	9998.2	0.052877	-0.017627	1	0.055738	-18.4362	-5.92E-05	1.99933	11	0.017627 0.000904
6	26	6311.1	0.059331	-0.026958	1	0.065168	-24.4351	-0.000098	1.9993	11	0.026958 0.000936
7	30	3980.93	0.067621	-0.036158	1	0.076681	-28.1342	-8.65E-05	1.99926	11	0.036158 0.001106
8	34	2511.16	0.074874	-0.046727	1	0.088258	-31.9672	-0.000104	1.99924	11	0.046727 0.001357
9	38	1584.49	0.079651	-0.063005	1	0.101557	-38.3445	-0.00011	1.99923	11	0.063005 0.001595
10	43	999.95	0.082471	-0.090774	1	0.122643	-47.744	-0.000111	1.99922	11	0.090774 0.001754
11	45	630.984	0.084189	-0.137243	1	0.161008	-58.4739	-0.000108	1.99922	11	0.137243 0.001839
12	47	398.209	0.085771	-0.212842	1	0.229474	-68.0517	-0.000106	1.99928	11	0.212842 0.001879
13	49	251.185	0.087594	-0.334081	1	0.345374	-75.3081	-8.31E-05	1.99928	11	0.334081 0.001898
14	51	158.533	0.090391	-0.526454	1	0.534157	-80.2574	-8.81E-05	1.99928	11	0.526454 0.001908
15	53	100.009	0.095586	-0.831174	1	0.836653	-83.4397	-0.000098	1.99927	11	0.831174 0.001916
16	55	63.0971	0.105656	-1.31272	1	1.31697	-85.3984	-0.000112	1.99925	11	1.31272 0.001922
17	57	40.0059	0.124234	-2.06129	1	2.06503	-86.551	-0.000102	1.99927	11	2.06129 0.001931
18	59	24.9911	0.165399	-3.28328	1	3.28744	-87.1161	-8.01E-05	1.99928	11	3.28328 0.001941
19	61	15.7934	0.251131	-5.16679	1	5.17289	-87.2173	-8.63E-05	1.99927	11	5.16679 0.001951
20	63	9.9987	0.382232	-8.09084	1	8.09986	-87.2952	2.98E-05	1.99927	10	8.09084 0.001968
21	66	6.31623	0.671582	-12.68	1	12.6977	-86.9682	-2.29E-05	1.99927	10	12.68 0.001988
22	68	3.97302	1.20195	-19.871	1	19.9073	-86.5385	2.84E-05	1.99927	10	19.871 0.002017
23	72	2.51085	2.4844	-30.8777	1	30.9775	-85.3999	-1.92E-05	1.99873	10	30.8777 0.002054
24	75	1.58325	4.73892	-47.7335	1	47.9682	-84.3303	-5.16E-06	1.99872	10	47.7335 0.002107
25	80	1.00006	8.81832	-73.0558	1	73.5861	-83.1173	4.44E-06	1.99854	9	73.0558 0.00218
59390											
0	5	100007	0.098537	0.042815	1	0.107437	23.4851	-2.35E-04	2.26447	11	0.042815 3.72E-05
1	7	63105.5	0.07818	0.024692	1	0.081986	17.5281	-4.04E-05	1.99954	11	0.024692 0.000102
2	9	39811.2	0.063448	0.012064	1	0.064584	10.7658	-1.94E-04	1.9995	11	0.012064 0.000332
3	13	25123.7	0.054086	0.001101	1	0.054097	1.16647	-5.61E-05	1.99942	11	0.001101 0.005757
4	17	15852.9	0.05083	-0.008912	1	0.051606	-9.9447	-0.000115	1.99935	11	0.008912 0.001127
5	21	9998.2	0.053494	-0.018476	1	0.056594	-19.0546	-8.60E-05	1.99933	11	0.018476 0.000862
6	26	6311.1	0.060313	-0.028069	1	0.066525	-24.9568	-1.14E-04	1.99929	11	0.028069 0.000899
7	30	3980.93	0.069073	-0.037492	1	0.078592	-28.4926	-1.17E-04	1.99926	11	0.037492 0.001067
8	34	2511.16	0.076819	-0.048147	1	0.09066	-32.0779	-1.11E-04	1.99924	11	0.048147 0.001317
9	38	1584.49	0.082005	-0.064446	1	0.104298	-38.1631	-1.14E-04	1.99922	11	0.064446 0.001559
10	42	999.95	0.085022	-0.092329	1	0.125513	-47.3593	-1.19E-04	1.99923	11	0.092329 0.001725
11	44	630.984	0.086879	-0.13911	1	0.164011	-58.0136	-1.21E-04	1.99922	11	0.13911 0.001814
12	46	398.209	0.088539	-0.21537	1	0.232859	-67.6523	-1.06E-04	1.99927	11	0.21537 0.001857
13	48	251.185	0.090368	-0.337771	1	0.349651	-75.0218	-8.22E-05	1.99925	11	0.337771 0.001877
14	50	158.533	0.093076	-0.53209	1	0.54017	-80.0779	-9.14E-05	1.99927	11	0.53209 0.001888
15	52	100.009	0.098028	-0.840247	1	0.845946	-83.3456	-1.03E-04	1.99927	11	0.840247 0.001895
16	54	63.0971	0.108153	-1.32647	1	1.33087	-85.3387	-1.04E-04	1.99929	11	1.32647 0.001903
17	56	40.0059	0.126915	-2.08347	1	2.08733	-86.5141	-1.06E-04	1.99928	11	2.08347 0.00191
18	58	24.9911	0.163154	-3.32188	1	3.32588	-87.1882	-7.90E-05	1.99927	11	3.32188 0.001918
19	60	15.7934	0.242191	-5.22335	1	5.22896	-87.3453	-9.40E-05	1.99927	11	5.22335 0.00193
20	63	9.9987	0.382908	-8.18795	1	8.1969	-87.3225	2.64E-05	1.99927	10	8.18795 0.001945
21	65	6.31623	0.630267	-12.8376	1	12.853	-87.1893	-2.18E-05	1.99927	10	12.8376 0.001964
22	67	3.97302	1.11577	-20.105	1	20.136	-86.8235	2.58E-05	1.99926	10	20.105 0.001993
23	71	2.51085	2.45469	-31.3037	1	31.3998	-85.5163	-2.24E-05	1.99873	10	31.3037 0.002026
24	74	1.58325	4.716	-48.4516	1	48.6805	-84.4407	-8.57E-06	1.99872	10	48.4516 0.002076
25	79	1.00006	8.87167	-74.2557	1	74.7838	-83.1869	1.44E-06	1.99854	9	74.2557 0.002144
59391											
0	6	100007	0.101285	0.046199	1	0.111324	24.5191	-8.17E-05	2.26445	11	0.046199 3.45E-05
1	8	63105.5	0.079935	0.02639	1	0.084179	18.2704	-1.25E-04	1.99954	11	0.02639 9.56E-05
2	9	39811.2	0.065124	0.01294	1	0.066397	11.2382	-6.26E-05	1.99947	11	0.01294 0.000309
3	14	25123.7	0.055536	0.001383	1	0.055554	1.42695	-1.32E-04	1.99944	11	0.001383 0.004583
4	18	15852.9	0.052439	-0.009049	1	0.053215	-9.791	-1.65E-04	1.99943	11	0.009049 0.00111
5	22	9998.2	0.05527	-0.018945	1	0.058427	-18.92	-7.96E-05	1.99934	11	0.018945 0.000841
6	26	6311.1	0.062323	-0.028836	1	0.068671	-24.8296	-1.05E-04	1.99929	11	0.028836 0.000875
7	30	3980.93	0.071434	-0.038514	1	0.081155	-28.3319	-1.10E-04	1.99926	11	0.038514 0.001039
8	34	2511.16	0.079567	-0.049331	1	0.093619	-31.7988	-1.10E-04	1.99924	11	0.049331 0.001285
9	38	1584.49	0.085065	-0.065739	1	0.107506	-37.6973	-1.15E-04	1.99923	11	0.065739 0.001529
10	42	999.95	0.088349	-0.093771	1	0.128835	-46.7053	-1.17E-04	1.99922	11	0.093771 0.001698
11	44	630.984	0.090429	-0.140902	1	0.167424	-57.3081	-1.18E-04	1.99922	11	0.140902 0.001791
12	46	398.209	0.092205	-0.217717	1	0.236437	-67.0468	-1.07E-04	1.99925	11	0.217717 0.001837
13	48	251.185	0.09416	-0.341182	1	0.353937	-74.5715	-7.58E-05	1.99927	11	0.341182 0.001858
14	50	158.533	0.09696	-0.537169	1	0.545849	-79.7682	-8.20E-05	1.99927	11	0.537169 0.00187
15	52	100.009	0.101945	-0.847721	1	0.853829	-83.1427	-9.50E-05	1.99927	11	0.847721 0.001878
16	54	63.0971	0.111176	-1.33889	1	1.3435	-85.2533	-1.00E-04	1.99928	11	1.33889 0.001885
17	56	40.0059	0.129702	-2.10323	1	2.10723	-86.4712	-1.01E-04	1.99927	11	2.10323 0.001892
18	59	24.9911	0.164094	-3.35116	1	3.35518	-87.1967	-8.59E-05	1.99927	11	3.35116 0.001901
19	61	15.7934	0.237912	-5.27104	1	5.27641	-87.4157	-8.77E-05	1.99927	11	5.27104 0.001913
20	63	9.9987	0.374642	-8.2595	1	8.26799	-87.4029	2.56E-05	1.99928	10	8.2595 0.001928
21	66	6.31623	0.614092	-12.9684	1	12.983	-87.2889	-1.30E-05	1.99928	10	12.9684 0.001944
22	68	3.97302	1.02745	-20.3332	1	20.3592	-87.1073	2.50E-05	1.99928	10	20.3332 0.001971
23	71	2.51085	2.33204	-31.6367	1	31.7226	-85.7842	-2.10E-05	1.99874	10	31.6367 0.002005
24	75	1.58325	4.42933	-49.0188	1	49.2185	-84.8368	-6.58E-06	1.99873	10	49.0188 0.002052
25	79	1.00006	8.22513	-75.2315	1	75.6798	-83.7606	3.13E-06	1.99856	9	75.2315 0.002116

59392

0	5	100007	0.099658	0.042001	1	0.108147	22.8529	6.05E-05	2.26441	11	0.042001	3.79E-05
1	7	63105.5	0.079315	0.024001	1	0.082867	16.8362	-9.90E-05	1.99953	11	0.024001	0.000105
2	9	39811.2	0.064981	0.011633	1	0.066014	10.1493	-8.00E-05	1.99946	11	0.011633	0.000344
3	13	25123.7	0.055776	0.000754	1	0.055781	0.774418	-4.76E-05	1.99943	11	0.000754	0.008406
4	17	15852.9	0.05278	-0.009262	1	0.053586	-9.953	-0.000111	1.99942	11	0.009262	0.001084
5	21	9998.2	0.055507	-0.018889	1	0.058632	-18.7932	-7.73E-05	1.99933	11	0.018889	0.000843
6	25	6311.1	0.062405	-0.028592	1	0.068643	-24.6159	-1.10E-04	1.99928	11	0.028592	0.000882
7	29	3980.93	0.071337	-0.038171	1	0.080907	-28.1508	-1.01E-04	1.99925	11	0.038171	0.001048
8	34	2511.16	0.079308	-0.048941	1	0.093193	-31.6789	-1.11E-04	1.99922	11	0.048941	0.001296
9	38	1584.49	0.084662	-0.065316	1	0.106929	-37.6499	-1.11E-04	1.99921	11	0.065316	0.001539
10	42	999.95	0.087788	-0.093332	1	0.128131	-46.7532	-1.14E-04	1.99921	11	0.093332	0.001706
11	44	630.984	0.089712	-0.140491	1	0.166691	-57.4392	-1.17E-04	1.99921	11	0.140491	0.001796
12	46	398.209	0.091425	-0.217247	1	0.2357	-67.177	-1.05E-04	1.99925	11	0.217247	0.001841
13	48	251.185	0.093329	-0.340613	1	0.353168	-74.6769	-7.89E-05	1.99927	11	0.340613	0.001861
14	50	158.533	0.096078	-0.536502	1	0.545038	-79.847	-8.59E-05	1.99927	11	0.536502	0.001872
15	52	100.009	0.100916	-0.846794	1	0.852786	-83.2039	-1.00E-04	1.99927	11	0.846794	0.00188
16	54	63.0971	0.110431	-1.33723	1	1.34179	-85.2791	-1.05E-04	1.99924	11	1.33723	0.001887
17	56	40.0059	0.129779	-2.10094	1	2.10494	-86.4652	-1.03E-04	1.99928	11	2.10094	0.001895
18	58	24.9911	0.169989	-3.34812	1	3.35243	-87.0935	-7.96E-05	1.99928	11	3.34812	0.001903
19	60	15.7934	0.24204	-5.26752	1	5.27307	-87.3691	-9.08E-05	1.99927	11	5.26752	0.001914
20	62	9.9987	0.377602	-8.24422	1	8.25286	-87.3776	2.60E-05	1.99927	10	8.24422	0.001932
21	65	6.31623	0.61332	-12.9202	1	12.9348	-87.2822	-1.59E-05	1.99928	10	12.9202	0.001951
22	67	3.97302	1.08554	-20.2835	1	20.3126	-86.9366	2.39E-05	1.99927	10	20.2835	0.001976
23	71	2.51085	2.34984	-31.6024	1	31.6896	-85.7475	-2.17E-05	1.99873	10	31.6024	0.002007
24	74	1.58325	4.47485	-48.9732	1	49.1772	-84.7792	-7.63E-06	1.99872	10	48.9732	0.002054
25	79	1.00006	8.36978	-75.1523	1	75.6169	-83.6451	3.20E-06	1.99856	9	75.1523	0.002119

59393

0	5	100007	0.103758	0.050163	1	0.115248	25.8018	1.25E-04	2.2644	11	0.050163	3.17E-05
1	7	63105.5	0.081621	0.029283	1	0.086715	19.736	-1.82E-05	1.99952	11	0.029283	8.62E-05
2	9	39811.2	0.065897	0.014877	1	0.067556	12.7217	-3.60E-05	1.99949	11	0.014877	0.000269
3	14	25123.7	0.055699	0.002611	1	0.05576	2.68344	-3.66E-05	1.99945	11	0.002611	0.002427
4	18	15852.9	0.052002	-0.008318	1	0.052663	-9.08735	-2.09E-04	1.99943	11	0.008318	0.001208
5	22	9998.2	0.054623	-1.85E-02	1	0.057681	-18.7389	-6.73E-05	1.99933	11	0.01853	0.000859
6	26	6311.1	0.061573	-0.028704	1	0.067934	-24.9937	-1.19E-04	1.99929	11	0.028704	0.000879
7	30	3980.93	0.070697	-0.038681	1	0.080587	-28.6845	-1.16E-04	1.99926	11	0.038681	0.001034
8	34	2511.16	0.07902	-0.049737	1	0.09337	-32.1872	-1.07E-04	1.99923	11	0.049737	0.001275
9	38	1584.49	0.084633	-0.066307	1	0.107515	-38.0774	-1.11E-04	1.99922	11	0.066307	0.001516
10	42	999.95	0.087951	-0.094582	1	0.129155	-47.0804	-1.17E-04	1.99923	11	0.094582	0.001684
11	44	630.984	0.089923	-0.142116	1	0.168176	-57.6767	-1.13E-04	1.99923	11	0.142116	0.001776
12	46	398.209	0.091695	-0.219692	1	0.23806	-67.3454	-1.03E-04	1.99927	11	0.219692	0.00182
13	48	251.185	0.093638	-0.344253	1	0.35676	-74.7835	-7.85E-05	1.99928	11	0.344253	0.001841
14	50	158.533	0.096434	-0.542185	1	0.550694	-79.9147	-8.14E-05	1.99929	11	0.542185	0.001853
15	52	100.009	0.101266	-0.85579	1	0.86176	-83.2515	-9.50E-05	1.99928	11	0.85579	0.001861
16	54	63.0971	0.110286	-1.35138	1	1.35588	-85.3344	-9.60E-05	1.99927	11	1.35138	0.001867
17	56	40.0059	0.128111	-2.12263	1	2.12649	-86.5461	-9.80E-05	1.99928	11	2.12263	0.001875
18	59	24.9911	0.165074	-3.38691	1	3.39093	-87.2097	-8.11E-05	1.99927	11	3.38691	0.001881
19	61	15.7934	0.241291	-5.31821	1	5.32368	-87.4022	-8.94E-05	1.99928	11	5.31821	0.001896
20	63	9.9987	0.372737	-8.34247	1	8.35079	-87.4418	3.02E-05	1.99928	10	8.34247	0.001909
21	66	6.31623	0.594349	-13.1055	1	13.119	-87.4034	-1.38E-05	1.99928	10	13.1055	0.001924
22	68	3.97302	1.10535	-20.5453	1	20.575	-86.9204	2.70E-05	1.99928	10	20.5453	0.001951
23	71	2.51085	2.25752	-32.019	1	32.0985	-85.967	-1.97E-05	1.99874	10	32.019	0.001981
24	75	1.58325	4.29825	-49.6472	1	49.8329	-85.0519	-6.12E-06	1.99873	10	49.6472	0.002026
25	79	1.00006	7.94483	-76.3107	1	76.7232	-84.0563	4.38E-06	1.99857	9	76.3107	0.002087

59397

0	5	100007	0.098734	0.037644	1	0.105666	20.8703	8.57E-05	2.26446	11	0.037644	4.23E-05
1	7	63105.5	0.07948	0.021179	1	0.082253	14.9208	1.35E-05	1.99952	11	0.021179	0.000119
2	9	39811.2	0.065786	0.009727	1	0.066501	8.41105	-1.59E-04	1.9995	11	0.009727	0.000411
3	13	25123.7	0.057256	-0.000473	1	0.057258	-0.473752	-8.25E-05	1.99946	11	0.000473	0.0134
4	17	15852.9	0.054587	-0.010119	1	0.055517	-10.5232	-2.24E-04	1.99941	11	0.010119	0.000993
5	21	9998.2	0.05766	-0.019582	1	0.060894	-18.7579	-7.54E-05	1.99932	11	0.019582	0.000813
6	25	6311.1	0.064668	-0.029224	1	0.070965	-24.3188	-1.03E-04	1.99927	11	0.029224	0.000863
7	30	3980.93	0.073728	-0.038792	1	0.08331	-27.7509	-9.70E-05	1.99924	11	0.038792	0.001031
8	34	2511.16	0.081831	-0.049559	1	0.095668	-31.2005	-1.07E-04	1.99922	11	0.049559	0.00128
9	38	1584.49	0.087368	-0.065939	1	0.109459	-37.0427	-1.10E-04	1.99921	11	0.065939	0.001524
10	42	999.95	0.090681	-0.093964	1	0.130584	-46.0185	-1.09E-04	1.99921	11	0.093964	0.001695
11	44	630.984	0.092748	-0.141081	1	0.168837	-56.6787	-1.09E-04	1.99921	11	0.141081	0.001789
12	46	398.209	0.094525	-0.21793	1	0.237547	-66.5517	-9.50E-05	1.99925	11	0.21793	0.001835
13	48	251.185	0.096524	-0.341397	1	0.35478	-74.2127	-7.19E-05	1.99927	11	0.341397	0.001857
14	50	158.533	0.099298	-0.537453	1	0.546549	-79.5322	-7.97E-05	1.99927	11	0.537453	0.001869
15	52	100.009	0.104379	-0.848143	1	0.854542	-82.984	-9.10E-05	1.99926	11	0.848143	0.001877
16	54	63.0971	0.113914	-1.3395	1	1.34434	-85.1391	-9.08E-05	1.99928	11	1.3395	0.001884
17	56	40.0059	0.132654	-2.10368	1	2.10786	-86.3918	-9.70E-05	1.99927	11	2.10368	0.001892
18	58	24.9911	0.168812	-3.35256	1	3.35681	-87.1174	-7.74E-05	1.99926	11	3.35256	0.001901
19	60	15.7934	0.243405	-5.27031	1	5.27593	-87.3557	-8.55E-05	1.99926	11	5.27031	0.001913
20	62	9.9987	0.377335	-8.27572	1	8.28432	-87.3894	2.94E-05	1.99926	10	8.27572	0.001924
21	65	6.31623	0.594561	-12.9705	1	12.9841	-87.3754	-7.90E-06	1.99927	10	12.9705	0.001944
22	67	3.97302	1.1535	-20.4355	1	20.468	-86.7693	2.57E-05	1.99926	10	20.4355	0.001961
23	71	2.51085	2.30419	-31.6781	1	31.7618	-85.8398	-2.05E-05	1.99872	10	31.6781	0.002002
24	74	1.58325	4.38073	-49.0869	1	49.282	-84.9002	-6.64E-06	1.99872	10	49.0869	0.002049
25	79	1.00006	8.12927	-75.3863	1	75.8233	-83.8453	4.18E-06	1.99856	9	75.3863	0.002112