



N7000-2 HT, N7000-3 & N7000-3F – Dielectric Properties Table

N7000-2HT & N7000-3 LAMINATE:

Thickness	&	Tol.	Construction						RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df		
0.0020	±	0.0005	1	106					64%	3.54	±	0.244	0.0143	±	0.00094	3.51	±	0.219	0.0157	±	0.00107
0.0025	±	0.0005	1	1080					57%	3.75	±	0.119	0.0135	±	0.00046	3.69	±	0.107	0.0148	±	0.00052
0.0030	±	0.0005	1	1080					61%	3.61	±	0.118	0.0141	±	0.00045	3.58	±	0.106	0.0154	±	0.00051
0.0040	±	0.0005	1	2116					43%	4.21	±	0.122	0.0118	±	0.00047	4.11	±	0.110	0.0127	±	0.00054
0.0045	±	0.0005	2	1080					51%	3.93	±	0.113	0.0129	±	0.00044	3.86	±	0.102	0.0140	±	0.00050
0.0050	±	0.0007	1	2113	1	106			52%	3.89	±	0.119	0.0130	±	0.00046	3.83	±	0.107	0.0141	±	0.00052
0.0060	±	0.0007	2	1080					61%	3.61	±	0.083	0.0141	±	0.00032	3.58	±	0.075	0.0154	±	0.00036
0.0060	±	0.0007	1	2116	1	106			50%	3.95	±	0.110	0.0128	±	0.00042	3.88	±	0.099	0.0139	±	0.00048
0.0065	±	0.0007	1	2116	1	1080			48%	4.03	±	0.083	0.0124	±	0.00032	3.95	±	0.075	0.0135	±	0.00036
0.0070	±	0.001	2	2113					49%	4.00	±	0.123	0.0126	±	0.00048	3.92	±	0.111	0.0137	±	0.00054
0.0075	±	0.001	1	2116	1	2113			48%	4.03	±	0.055	0.0124	±	0.00021	3.95	±	0.049	0.0135	±	0.00024
0.0080	±	0.001	2	2116					43%	4.21	±	0.122	0.0118	±	0.00047	4.11	±	0.110	0.0127	±	0.00054
0.0090	±	0.001	2	2116					47%	4.07	±	0.134	0.0123	±	0.00052	3.99	±	0.121	0.0133	±	0.00059
0.0100	±	0.001	2	2116	1	106			49%	4.00	±	0.042	0.0126	±	0.00016	3.93	±	0.038	0.0137	±	0.00018
0.0100	±	0.001	2	2116					52%	3.89	±	0.071	0.0130	±	0.00027	3.83	±	0.064	0.0141	±	0.00031
0.0120	±	0.0015	2	1080	1	7628			47%	4.07	±	0.049	0.0123	±	0.00019	3.99	±	0.044	0.0134	±	0.00021
0.0130	±	0.0015	2	2116	1	2116			47%	4.07	±	0.088	0.0123	±	0.00034	3.99	±	0.080	0.0133	±	0.00039
0.0140	±	0.0015	2	2113	1	7628			46%	4.12	±	0.014	0.0121	±	0.00005	4.03	±	0.012	0.0132	±	0.00006
0.0140	±	0.0015	2	2113	2	2113			49%	4.00	±	0.084	0.0126	±	0.00032	3.92	±	0.075	0.0137	±	0.00037
0.0150	±	0.0015	2	7628	1	106			41%	4.30	±	0.005	0.0114	±	0.00002	4.20	±	0.005	0.0123	±	0.00002
0.0150	±	0.0015	2	2116	1	7628			44%	4.18	±	0.033	0.0119	±	0.00013	4.09	±	-0.030	0.0129	±	0.00014



N7000-2 HT & N7000-3 – Dielectric Properties Table

Thickness	&	Tol.	Construction						RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df		
0.0160	±	0.0015	2	7628	1	1080			40%	4.35	±	0.068	0.0112	±	0.00026	4.24	±	0.061	0.0121	±	0.00030
0.0170	±	0.0015	2	106	2	7628			44%	4.19	±	0.001	0.0118	±	0.00000	4.10	±	-0.001	0.0128	±	0.00000
0.0180	±	0.0015	2	1080	2	7628			42%	4.28	±	0.015	0.0115	±	0.00006	4.18	±	0.013	0.0124	±	0.00007
0.0190	±	0.0015	2	1080	2	7628			44%	4.19	±	0.011	0.0118	±	0.00004	4.09	±	0.010	0.0128	±	0.00005
0.0200	±	0.002	2	2113	2	7628			44%	4.19	±	0.076	0.0118	±	0.00029	4.09	±	-0.068	0.0128	±	0.00033
0.0210	±	0.002	2	2113	2	7628			44%	4.19	±	0.001	0.0118	±	0.00000	4.09	±	0.000	0.0128	±	0.00000
0.0220	±	0.002	2	2116	2	7628			42%	4.24	±	0.021	0.0116	±	0.00008	4.14	±	-0.018	0.0126	±	0.00009
0.0240	±	0.002	3	2113	2	7628			45%	4.14	±	0.056	0.0120	±	0.00022	4.05	±	-0.051	0.0130	±	0.00025
0.0250	±	0.002	2	1080	3	7628			40%	4.32	±	0.031	0.0113	±	0.00012	4.22	±	0.028	0.0122	±	0.00014
0.0260	±	0.002	2	2113	4	2116			51%	3.93	±	0.005	0.0129	±	0.00002	3.86	±	0.004	0.0140	±	0.00002
0.0270	±	0.002	2	2113	3	7628			43%	4.23	±	0.087	0.0117	±	0.00033	4.13	±	-0.078	0.0126	±	0.00038
0.0280	±	0.002	2	2116	3	7628			42%	4.28	±	0.099	0.0115	±	0.00038	4.17	±	-0.089	0.0124	±	0.00043
0.0290	±	0.002	2	2116	3	7628			42%	4.28	±	0.036	0.0115	±	0.00014	4.17	±	-0.033	0.0124	±	0.00016
0.0300	±	0.002	2	106	4	7628			41%	4.30	±	0.052	0.0114	±	0.00020	4.20	±	-0.047	0.0123	±	0.00023
0.0310	±	0.003	2	1080	4	7628			40%	4.35	±	0.014	0.0112	±	0.00006	4.24	±	0.013	0.0121	±	0.00006
0.0320	±	0.003	2	1080	4	7628			41%	4.29	±	0.010	0.0114	±	0.00004	4.19	±	0.009	0.0124	±	0.00004

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April 28, 2022



N7000-2 HT & N7000-3 – Dielectric Properties Table

Thickness	&	Tol.	Construction						RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df		
0.0340	±	0.003	2	2113	4	7628			42%	4.27	±	0.038	0.0115	±	0.00015	4.16	±	-0.034	0.0125	±	0.00017
0.0350	±	0.003	2	2113	4	7628			42%	4.27	±	0.010	0.0115	±	0.00004	4.16	±	0.009	0.0125	±	0.00004
0.0360	±	0.003	2	2116	4	7628			43%	4.21	±	0.089	0.0117	±	0.00034	4.12	±	-0.080	0.0127	±	0.00039
0.0387	±	0.003	2	1080	5	7628			39%	4.37	±	0.036	0.0111	±	0.00014	4.26	±	0.032	0.0121	±	0.00016
0.0390	±	0.003	2	1080	5	7628			41%	4.32	±	0.000	0.0113	±	0.00000	4.21	±	0.000	0.0123	±	0.00000
0.0400	±	0.003	2	2113	5	7628			41%	4.29	±	0.090	0.0114	±	0.00035	4.19	±	-0.081	0.0124	±	0.00039
0.0410	±	0.003	2	2113	5	7628			41%	4.29	±	0.045	0.0114	±	0.00018	4.19	±	-0.041	0.0124	±	0.00020
0.0420	±	0.003	2	2116	5	7628			39%	4.38	±	0.005	0.0111	±	0.00002	4.26	±	0.004	0.0120	±	0.00002
0.0430	±	0.003	2	2116	5	7628			40%	4.33	±	0.006	0.0113	±	0.00002	4.22	±	-0.006	0.0122	±	0.00003
0.0450	±	0.003	2	106	6	7628			40%	4.35	±	0.029	0.0112	±	0.00011	4.24	±	0.026	0.0121	±	0.00013
0.0460	±	0.003	2	1080	6	7628			40%	4.34	±	0.007	0.0113	±	0.00003	4.23	±	-0.007	0.0122	±	0.00003
0.0470	±	0.003	2	7628	5	7628			37%	4.46	±	0.008	0.0108	±	0.00003	4.34	±	-0.007	0.0117	±	0.00004
0.0480	±	0.003	2	2113	6	7628			41%	4.31	±	0.050	0.0114	±	0.00019	4.20	±	-0.045	0.0123	±	0.00022
0.0490	±	0.003	2	2116	6	7628			40%	4.34	±	0.051	0.0113	±	0.00020	4.23	±	-0.046	0.0122	±	0.00022
0.0510	±	0.003	3	2113	6	7628			42%	4.27	±	0.090	0.0115	±	0.00035	4.16	±	-0.081	0.0125	±	0.00039
0.0520	±	0.003	2	1080	7	7628			40%	4.35	±	0.048	0.0112	±	0.00019	4.24	±	-0.043	0.0121	±	0.00021

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Thickness	&	Tol.	Construction						RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df		
0.0530	±	0.003	2	1080		7	7628		40%	4.35	±	0.013	0.0112	±	0.00005	4.24	±	-0.012	0.0121	±	0.00006
0.0540	±	0.003	2	2113		7	7628		40%	4.33	±	0.087	0.0113	±	0.00033	4.22	±	-0.078	0.0122	±	0.00038
0.0550	±	0.003	2	2113		7	7628		40%	4.33	±	0.052	0.0113	±	0.00020	4.22	±	-0.047	0.0122	±	0.00023
0.0560	±	0.003	2	106		8	7628		39%	4.37	±	0.088	0.0111	±	0.00034	4.26	±	-0.079	0.0120	±	0.00038
0.0570	±	0.003	4	1080		7	7628		40%	4.34	±	0.009	0.0113	±	0.00004	4.23	±	-0.008	0.0122	±	0.00004
0.0570	±	0.003	2	2116		7	7628		40%	4.35	±	0.019	0.0112	±	0.00007	4.24	±	-0.018	0.0121	±	0.00009
0.0580	±	0.003	2	106		8	7628		39%	4.37	±	0.020	0.0111	±	0.00008	4.26	±	-0.018	0.0120	±	0.00009
0.0590	±	0.003	2	1080		8	7628		40%	4.36	±	0.049	0.0112	±	0.00019	4.25	±	-0.044	0.0121	±	0.00021
0.0620	±	0.003	2	2113		8	7628		40%	4.34	±	0.054	0.0113	±	0.00021	4.23	±	-0.049	0.0122	±	0.00024

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N7000-2 HT & N7000-3 – Dielectric Properties Table

N7000-3 PREPREG

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	Thickness (inches)
106	72	3.34	0.0151	3.33	0.0166	0.0023
1080	63	3.56	0.0142	3.53	0.0156	0.0032
1080	68	3.43	0.0147	3.41	0.0161	0.0039
2113	55	3.80	0.0133	3.74	0.0146	0.0042
2116	52	3.89	0.0130	3.83	0.0141	0.0051
7628	41	4.30	0.0114	4.19	0.0124	0.0075

N7000-3F PREPREG

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	Thickness (inches)
106	77	3.14	0.0156	2.85	0.0159	0.0028
1080	70	3.27	0.0149	2.97	0.0154	0.0040

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