



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%	3.58	±	0.19	0.0143	±	0.0010	3.28	±	0.18	0.0148	±	0.0009
0.0025	±	0.0005	1	1080			57%	3.74	±	0.10	0.0135	±	0.0005	3.43	±	0.09	0.0141	±	0.0004
0.0030	±	0.0005	1	1080			61%	3.64	±	0.10	0.0141	±	0.0005	3.34	±	0.09	0.0146	±	0.0004
0.0040	±	0.0005	1	2116			43%	4.09	±	0.10	0.0118	±	0.0005	3.77	±	0.10	0.0125	±	0.0005
0.0045	±	0.0005	2	1080			51%	3.88	±	0.10	0.0129	±	0.0005	3.56	±	0.09	0.0135	±	0.0004
0.0050	±	0.0007	2	106			75%	3.38	±	0.03	0.0154	±	0.0002	3.08	±	0.03	0.0158	±	0.0002
0.0050	±	0.0007	2	2113	1	106	51%	3.89	±	0.58	0.0128	±	0.0030	3.57	±	-0.56	0.0135	±	0.0027
0.0060	±	0.0007	2	1080			61%	3.64	±	0.07	0.0141	±	0.0004	3.34	±	0.07	0.0146	±	0.0003
0.0060	±	0.0007	1	2116	1	106	50%	3.89	±	0.09	0.0128	±	0.0005	3.58	±	0.09	0.0134	±	0.0004
0.0065	±	0.0007	1	2116	1	1080	48%	3.96	±	0.07	0.0124	±	0.0004	3.64	±	0.07	0.0131	±	0.0003
0.0070	±	0.001	2	2113			49%	3.93	±	0.10	0.0126	±	0.0005	3.61	±	0.10	0.0133	±	0.0005
0.0075	±	0.001	1	2116	1	2113	48%	3.96	±	0.05	0.0124	±	0.0003	3.64	±	0.05	0.0131	±	0.0002
0.0080	±	0.001	2	2116			43%	4.09	±	0.10	0.0118	±	0.0005	3.77	±	0.10	0.0125	±	0.0005
0.0090	±	0.001	2	2116			47%	3.99	±	0.11	0.0123	±	0.0006	3.67	±	0.11	0.0130	±	0.0005
0.0100	±	0.001	2	2116	1	106	49%	3.94	±	0.04	0.0126	±	0.0002	3.62	±	0.04	0.0132	±	0.0002
0.0100	±	0.001	2	2116			52%	3.85	±	0.06	0.0130	±	0.0003	3.54	±	0.06	0.0136	±	0.0003
0.0120	±	0.0015	2	1080	1	7628	47%	3.99	±	0.05	0.0123	±	0.0002	3.67	±	0.05	0.0130	±	0.0002
0.0130	±	0.0015	2	2116	1	2116	47%	3.99	±	0.08	0.0123	±	0.0004	3.67	±	0.07	0.0130	±	0.0004
0.0140	±	0.0015	2	2113	1	7628	46%	4.02	±	0.02	0.0121	±	0.0001	3.70	±	0.02	0.0128	±	0.0001
0.0140	±	0.0015	2	2113	2	2113	49%	3.93	±	0.07	0.0126	±	0.0004	3.61	±	0.07	0.0133	±	0.0003
0.0150	±	0.0015	2	7628	1	106	41%	4.16	±	0.02	0.0114	±	0.0001	3.84	±	0.02	0.0122	±	0.0001
0.0150	±	0.0015	2	2116	1	7628	44%	4.07	±	0.01	0.0119	±	0.0001	3.75	±	-0.01	0.0126	±	0.0001



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%	4.20	±	0.06	0.0112	±	0.0003	3.87	±	0.06	0.0120	±	0.0003
0.0170	±	0.0015	2	106	2	7628	44%	4.08	±	0.01	0.0118	±	0.0001	3.76	±	0.01	0.0126	±	0.0001
0.0180	±	0.0015	2	1080	2	7628	42%	4.15	±	0.02	0.0115	±	0.0001	3.82	±	0.02	0.0123	±	0.0001
0.0190	±	0.0015	2	1080	2	7628	44%	4.08	±	0.02	0.0118	±	0.0001	3.76	±	0.02	0.0126	±	0.0001
0.0200	±	0.002	2	2113	2	7628	44%	4.08	±	0.05	0.0118	±	0.0002	3.75	±	-0.04	0.0126	±	0.0002
0.0210	±	0.002	2	2113	2	7628	44%	4.08	±	0.01	0.0118	±	0.0001	3.75	±	0.01	0.0126	±	0.0001
0.0220	±	0.002	2	2116	2	7628	42%	4.12	±	0.00	0.0116	±	0.0000	3.79	±	0.00	0.0124	±	0.0000
0.0240	±	0.002	3	2113	2	7628	45%	4.04	±	0.03	0.0120	±	0.0002	3.72	±	-0.03	0.0127	±	0.0001
0.0250	±	0.002	2	1080	3	7628	40%	4.18	±	0.04	0.0113	±	0.0002	3.85	±	0.03	0.0121	±	0.0002
0.0260	±	0.002	2	2113	4	2116	51%	3.88	±	0.01	0.0129	±	0.0001	3.56	±	0.01	0.0135	±	0.0001
0.0270	±	0.002	2	2113	3	7628	43%	4.11	±	0.05	0.0117	±	0.0003	3.79	±	-0.05	0.0124	±	0.0002
0.0280	±	0.002	2	2116	3	7628	42%	4.14	±	0.06	0.0115	±	0.0003	3.82	±	-0.06	0.0123	±	0.0003
0.0290	±	0.002	2	2116	3	7628	42%	4.14	±	0.02	0.0115	±	0.0001	3.82	±	-0.01	0.0123	±	0.0001
0.0300	±	0.002	2	106	4	7628	41%	4.16	±	0.03	0.0114	±	0.0001	3.84	±	-0.03	0.0122	±	0.0001
0.0310	±	0.003	2	1080	4	7628	40%	4.20	±	0.02	0.0112	±	0.0001	3.87	±	0.02	0.0120	±	0.0001
0.0320	±	0.003	2	1080	4	7628	41%	4.16	±	0.02	0.0114	±	0.0001	3.83	±	0.02	0.0122	±	0.0001

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North America +1.480.967.5600 • Europe +33.5.62.98.52.90 • Asia Pacific +65.686.17117

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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%	4.14	±	0.02	0.0115	±	0.0001	3.81	±	-0.02	0.0123	±	0.0001
0.0350	±	0.003	2	2113	4	7628	42%	4.14	±	0.02	0.0115	±	0.0001	3.81	±	0.02	0.0123	±	0.0001
0.0360	±	0.003	2	2116	4	7628	43%	4.09	±	0.06	0.0117	±	0.0003	3.77	±	-0.05	0.0125	±	0.0003
0.0387	±	0.003	2	1080	5	7628	39%	4.21	±	0.04	0.0111	±	0.0002	3.89	±	0.04	0.0120	±	0.0002
0.0390	±	0.003	2	1080	5	7628	41%	4.18	±	0.01	0.0113	±	0.0001	3.85	±	0.01	0.0121	±	0.0001
0.0400	±	0.003	2	2113	5	7628	41%	4.15	±	0.06	0.0114	±	0.0003	3.83	±	-0.05	0.0122	±	0.0003
0.0410	±	0.003	2	2113	5	7628	41%	4.15	±	0.02	0.0114	±	0.0001	3.83	±	-0.02	0.0122	±	0.0001
0.0420	±	0.003	2	2116	5	7628	39%	4.22	±	0.02	0.0111	±	0.0001	3.89	±	0.02	0.0119	±	0.0001
0.0430	±	0.003	2	2116	5	7628	40%	4.18	±	0.01	0.0113	±	0.0000	3.86	±	0.01	0.0121	±	0.0000
0.0450	±	0.003	2	106	6	7628	40%	4.20	±	0.03	0.0112	±	0.0002	3.87	±	0.03	0.0120	±	0.0002
0.0460	±	0.003	2	1080	6	7628	40%	4.19	±	0.01	0.0113	±	0.0000	3.86	±	0.01	0.0121	±	0.0000
0.0470	±	0.003	2	7628	5	7628	37%	4.28	±	0.01	0.0108	±	0.0000	3.95	±	0.01	0.0117	±	0.0000
0.0480	±	0.003	2	2113	6	7628	41%	4.17	±	0.03	0.0114	±	0.0001	3.84	±	-0.02	0.0122	±	0.0001
0.0490	±	0.003	2	2116	6	7628	40%	4.19	±	0.03	0.0113	±	0.0001	3.87	±	-0.03	0.0121	±	0.0001
0.0510	±	0.003	3	2113	6	7628	42%	4.14	±	0.06	0.0115	±	0.0003	3.81	±	-0.05	0.0123	±	0.0003
0.0520	±	0.003	2	1080	7	7628	40%	4.20	±	0.02	0.0112	±	0.0001	3.88	±	-0.02	0.0120	±	0.0001

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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%	4.20	±	0.00	0.0112	±	0.0000	3.88	±	0.00	0.0120	±	0.0000
0.0540	±	0.003	2	2113	7	7628		40%	4.18	±	0.05	0.0113	±	0.0003	3.86	±	-0.05	0.0121	±	0.0002
0.0550	±	0.003	2	2113	7	7628		40%	4.18	±	0.03	0.0113	±	0.0001	3.86	±	-0.03	0.0121	±	0.0001
0.0560	±	0.003	2	106	8	7628		39%	4.22	±	0.05	0.0111	±	0.0003	3.89	±	-0.05	0.0120	±	0.0002
0.0570	±	0.003	4	1080	7	7628		40%	4.19	±	0.01	0.0113	±	0.0000	3.86	±	0.00	0.0121	±	0.0000
0.0570	±	0.003	2	2116	7	7628		40%	4.20	±	0.00	0.0112	±	0.0000	3.88	±	0.00	0.0120	±	0.0000
0.0580	±	0.003	2	106	8	7628		39%	4.22	±	0.00	0.0111	±	0.0000	3.89	±	0.00	0.0120	±	0.0000
0.0590	±	0.003	2	1080	8	7628		40%	4.21	±	0.02	0.0112	±	0.0001	3.88	±	-0.02	0.0120	±	0.0001
0.0620	±	0.003	2	2113	8	7628		40%	4.19	±	4.19	0.0113	±	0.0113	3.86	±	3.86	0.0121	±	0.0121

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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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