



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

LAMINATE:

Thickness (inch)	&	Tol.	Construction				RC%	Nominal Thickness (inch)	Nominal Thickness (µm)	1 GHz Dk	2 GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df	
0.0020	±	0.0005	1	106			70%	0.0021	54	3.08	3.47	0.0149	3.17	0.0154	
0.0028	±	0.0005	1	1080			57%	0.0026	66	3.51	3.74	0.0135	3.43	0.0141	
0.0030	±	0.0005	1	1080			61%	0.0030	76	3.35	3.64	0.0141	3.34	0.0146	
0.0035	±	0.0005	2	106			64%	0.0034	87	3.26	3.58	0.0143	3.28	0.0148	
0.0040	±	0.0005	1	1080	+	1	106	56%	0.0039	100	3.52	3.75	0.0135	3.44	0.0141
0.0040	±	0.0005	1	2116			43%	0.0040	103	4.06	4.09	0.0118	3.77	0.0125	
0.0045	±	0.0005	2	1080			51%	0.0044	113	3.72	3.88	0.0129	3.56	0.0135	
0.0045	±	0.0005	1	1080	+	1	106	60%	0.0043	110	3.41	3.68	0.0139	3.37	0.0144
0.0050	±	0.0007	2	1080			57%	0.0052	133	3.51	3.74	0.0135	3.43	0.0141	
0.0050	±	0.0007	1	2113	+	1	106	54%	0.0052	133	3.62	3.81	0.0132	3.50	0.0138
0.0060	±	0.0007	2	1080			61%	0.0060	152	3.35	3.64	0.0141	3.34	0.0146	
0.0060	±	0.0007	1	2116	+	1	106	51%	0.0061	156	3.71	3.87	0.0129	3.56	0.0135
0.0065	±	0.0007	1	2116	+	1	1080	48%	0.0066	169	3.84	3.95	0.0125	3.64	0.0132
0.0070	±	0.0010	2	2113			49%	0.0070	179	3.80	3.93	0.0126	3.61	0.0133	
0.0080	±	0.0010	2	2116			43%	0.0081	205	4.06	4.09	0.0118	3.77	0.0125	
0.0080	±	0.0010	1	2116	+	1	2113	48%	0.0079	201	3.85	3.96	0.0124	3.65	0.0131
0.0090	±	0.0010	2	2116			47%	0.0088	224	3.90	3.99	0.0123	3.67	0.0130	
0.0100	±	0.0010	2	2116	+	1	106	49%	0.0105	268	3.79	3.92	0.0126	3.61	0.0133
0.0100	±	0.0010	2	2116			52%	0.0101	257	3.68	3.85	0.0130	3.54	0.0136	
0.0100	±	0.0010	1	2116	+	2	1080	52%	0.0096	245	3.68	3.85	0.0130	3.54	0.0136
0.0120	±	0.0015	2	1080	+	2	2113	52%	0.0123	311	3.67	3.85	0.0130	3.54	0.0136



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LAMINATE (continued):

Thickness (inch)	&	Tol.	Construction					RC%	Nominal Thickness (inch)	Nominal Thickness (µm)	1 GHz Dk	2 GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df
0.0120	±	0.0015	2	1080	+	1	7628	45%	0.0121	308	3.97	4.04	0.0120	3.72	0.0128
0.0140	±	0.0015	2	2113	+	1	7628	43%	0.0139	354	4.07	4.10	0.0117	3.78	0.0125
0.0140	±	0.0015	4	2113				49%	0.0141	357	3.80	3.93	0.0126	3.61	0.0133
0.0160	±	0.0015	2	1080	+	2	2116	55%	0.0161	410	3.56	3.77	0.0134	3.46	0.0140
0.0180	±	0.0015	2	2116	+	2	2116	48%	0.0182	462	3.85	3.96	0.0124	3.64	0.0131
0.0180	±	0.0015	2	1080	+	2	7628	40%	0.0182	463	4.19	4.18	0.0113	3.85	0.0121
0.0200	±	0.0025	3	2113	+	2	2116	50%	0.0207	525	3.74	3.89	0.0128	3.58	0.0134
0.0210	±	0.0025	2	2113	+	2	7628	41%	0.0208	529	4.16	4.16	0.0114	3.83	0.0122
0.0240	±	0.0025	3	2113	+	2	7628	42%	0.0243	618	4.11	4.12	0.0116	3.80	0.0124
0.0280	±	0.0025	2	2113	+	3	7628	40%	0.0277	704	4.21	4.19	0.0113	3.86	0.0121
0.0310	±	0.0040	2	1080	+	4	7628	39%	0.0320	813	4.26	4.22	0.0111	3.90	0.0119
0.0340	±	0.0040	2	1080	+	7	2116	47%	0.0354	898	3.87	3.98	0.0124	3.66	0.0131
0.0390	±	0.0040	2	1080	+	5	7628	40%	0.0397	1008	4.23	4.20	0.0112	3.88	0.0120
0.0400	±	0.0040	2	2113	+	5	7628	39%	0.0415	1054	4.25	4.22	0.0111	3.89	0.0120
0.0590	±	0.0050	2	1080	+	8	7628	39%	0.0604	1534	4.27	4.23	0.0111	3.90	0.0119
0.0620	±	0.0050	2	2113	+	8	7628	39%	0.0622	1580	4.29	4.24	0.0110	3.91	0.0119
0.0650	±	0.0050	2	106	+	9	7628	39%	0.0655	1663	4.29	4.24	0.0110	3.91	0.0119
0.0750	±	0.0050	2	2113	+	10	7628	38%	0.0760	1930	4.30	4.25	0.0110	3.92	0.0118
0.0790	±	0.0050	2	1080	+	11	7628	38%	0.0803	2039	4.31	4.26	0.0109	3.93	0.0118
0.0940	±	0.0050	2	2113	+	13	7628	38%	0.0967	2455	4.31	4.25	0.0109	3.93	0.0118
0.1250	±	0.0050	2	106	+	18	7628	38%	0.1275	3239	4.32	4.26	0.0109	3.93	0.0118



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### N7000-3 PREPREG:

Glass	RC%	Thickness (inches)	Thickness (µm)	2 GHz Dk	2 GHz Df	10 GHz Dk	10 GHz Df
106	72%	0.0023	59	3.43	0.0151	3.13	0.0166
1080	63%	0.0032	81	3.60	0.0142	3.30	0.0156
1080	68%	0.0038	96	3.51	0.0147	3.20	0.0161
2113	55%	0.0041	105	3.78	0.0133	3.47	0.0146
2116	52%	0.0051	129	3.85	0.0130	3.54	0.0141
7628	41%	0.0075	191	4.16	0.0114	3.84	0.0124

These laminate and prepreg items are representative of available materials. These items and their associated values may not be regularly available and additional lead times or minimum order quantities could apply. Please contact our office or your local technical representative for assistance with choosing the best material for your design and application.

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