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

N7000-2HT & N7000-3 LAMINATE:

Thickness & Tolerance			Construction					RC%	1 GHz Dk	2GHz Dk	2 GHz Df	10 GH Dk	10 GHz Df
0.0020	±	0.0005	1	106				64%	3.26	3.58	0.0143	3.28	0.0148
0.0025	±	0.0005	1	1080				57%	3.51	3.74	0.0135	3.43	0.0141
0.0030	±	0.0005	1	1080				61%	3.35	3.64	0.0141	3.34	0.0146
0.0040	±	0.0005	1	2116				43%	4.06	4.09	0.0118	3.77	0.0125
0.0040	±	0.0005	1	1080	+	1	106	56%	3.52	3.75	0.0135	3.44	0.0141
0.0045	±	0.0005	2	1080				51%	3.72	3.88	0.0129	3.56	0.0135
0.0050	±	0.0007	2	106				75%	2.94	3.38	0.0154	3.08	0.0158
0.0050	±	0.0007	1	2113	+	1	106	52%	3.68	3.85	0.0130	3.54	0.0136
0.0060	±	0.0007	2	1080				61%	3.35	3.64	0.0141	3.34	0.0146
0.0060	±	0.0007	1	2116	+	1	106	50%	3.75	3.89	0.0128	3.58	0.0134
0.0065	±	0.0007	1	2116	+	1	1080	48%	3.85	3.96	0.0124	3.64	0.0131
0.0070	±	0.0010	2	2113				49%	3.80	3.93	0.0126	3.61	0.0133
0.0075	±	0.0010	1	2116	+	1	2113	48%	3.85	3.96	0.0124	3.64	0.0131
0.0080	±	0.0010	2	2116				43%	4.06	4.09	0.0118	3.77	0.0125
0.0090	±	0.0010	2	2116				47%	3.90	3.99	0.0123	3.67	0.0130
0.0100	±	0.0010	2	2116	+	1	106	49%	3.81	3.94	0.0126	3.62	0.0132
0.0100	±	0.0010	2	2116				52%	3.68	3.85	0.0130	3.54	0.0136
0.0120	±	0.0015	2	1080	+	1	7628	47%	3.89	3.99	0.0123	3.67	0.0130
0.0140	±	0.0015	2	2113	+	1	7628	46%	3.95	4.02	0.0121	3.70	0.0128
0.0140	±	0.0015	2	2113	+	2	2113	49%	3.80	3.93	0.0126	3.61	0.0133
0.0160	±	0.0015	2	7628	+	1	1080	40%	4.22	4.20	0.0112	3.87	0.0120
0.0180	±	0.0015	2	1080	+	2	7628	42%	4.14	4.15	0.0115	3.82	0.0123

The following laminate and prepreg items are a 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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N7000-2 HT & N7000-3 – Dielectric Properties Table

Thickness & Tolerance			Construction					RC%	1 GHz Dk	2GHz Dk	2 GHz Df	10 GH Dk	10 GHz Df
0.0200	±	0.002	2	2113	+	2	7628	44%	4.03	4.08	0.0118	3.75	0.0126
0.0210	±	0.002	2	2113	+	2	7628	44%	4.03	4.08	0.0118	3.75	0.0126
0.0220	±	0.002	2	2116	+	2	7628	42%	4.09	4.12	0.0116	3.79	0.0124
0.0240	±	0.002	3	2113	+	2	7628	45%	3.98	4.04	0.0120	3.72	0.0127
0.0250	±	0.002	2	1080	+	3	7628	40%	4.19	4.18	0.0113	3.85	0.0121
0.0260	±	0.002	2	2113	+	4	2116	51%	3.72	3.88	0.0129	3.56	0.0135
0.0280	±	0.002	2	2116	+	3	7628	42%	4.14	4.14	0.0115	3.82	0.0123
0.0310	±	0.003	2	1080	+	4	7628	40%	4.22	4.20	0.0112	3.87	0.0120
0.0320	±	0.003	2	1080	+	4	7628	41%	4.15	4.16	0.0114	3.83	0.0122
0.0340	±	0.003	2	2113	+	4	7628	42%	4.12	4.14	0.0115	3.81	0.0123
0.0390	±	0.003	2	1080	+	5	7628	41%	4.19	4.18	0.0113	3.85	0.0121
0.0400	±	0.003	2	2113	+	5	7628	41%	4.15	4.15	0.0114	3.83	0.0122
0.0560	±	0.003	2	106	+	8	7628	39%	4.25	4.22	0.0111	3.89	0.0120
0.0580	±	0.003	2	106	+	8	7628	39%	4.25	4.22	0.0111	3.89	0.0120
0.0590	±	0.003	2	1080	+	8	7628	40%	4.24	4.21	0.0112	3.88	0.0120
0.0620	±	0.003	2	2113	+	8	7628	40%	4.21	4.19	0.0113	3.86	0.0121

N7000-3 PREPREG:

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	Thickness (inches)	Thickness (microns)
106	72	3.43	0.0151	3.13	0.0166	0.0023	59
1080	63	3.60	0.0142	3.30	0.0156	0.0032	81
1080	68	3.51	0.0147	3.20	0.0161	0.0039	96
2113	55	3.78	0.0133	3.47	0.0146	0.0042	106
2116	52	3.85	0.0130	3.54	0.0141	0.0051	129
7628	41	4.16	0.0114	3.84	0.0124	0.0075	191

August 16, 2024