



## N4000-6 & N4000-6FC – Dielectric Properties Table

LAMINATE:

Thickness	&	Tol.	Construction				RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			
0.0020	±	0.0005	1	106				71%	3.70	±	0.106	0.0202	±	0.00058	3.62	±	0.109	0.0216	±	0.00061
0.0025	±	0.0005	1	1080				59%	3.99	±	0.124	0.0186	±	0.00068	3.91	±	0.128	0.0199	±	0.00072
0.0030	±	0.0005	1	1080				64%	3.86	±	0.105	0.0193	±	0.00058	3.79	±	0.108	0.0206	±	0.00060
0.0040	±	0.0005	1	106	+	1	1080	60%	3.95	±	0.076	0.0188	±	0.00042	3.87	±	0.078	0.0201	±	0.00044
0.0040	±	0.0005	1	2116				46%	4.39	±	0.155	0.0164	±	0.00085	4.33	±	0.159	0.0176	±	0.00089
0.0045	±	0.0005	1	2116				51%	4.23	±	0.114	0.0172	±	0.00063	4.16	±	0.117	0.0185	±	0.00066
0.0050	±	0.0007	1	2116				55%	4.11	±	0.122	0.0179	±	0.00067	4.04	±	0.126	0.0192	±	0.00070
0.0060	±	0.0007	2	1080				64%	3.86	±	0.077	0.0193	±	0.00042	3.79	±	0.079	0.0206	±	0.00044
0.0065	±	0.0007	2	2113				49%	4.28	±	0.108	0.0170	±	0.00059	4.22	±	0.111	0.0182	±	0.00062
0.0070	±	0.001	2	2113				52%	4.19	±	0.123	0.0175	±	0.00068	4.12	±	0.126	0.0188	±	0.00071
0.0075	±	0.001	1	7628				44%	4.47	±	0.188	0.0159	±	0.00103	4.40	±	0.193	0.0172	±	0.00108
0.0080	±	0.001	2	2116				46%	4.39	±	0.155	0.0164	±	0.00085	4.33	±	0.159	0.0176	±	0.00089
0.0090	±	0.001	1	2116	+	1	2116	50%	4.23	±	0.116	0.0172	±	0.00064	4.17	±	0.119	0.0185	±	0.00067
0.0100	±	0.001	2	2116				55%	4.11	±	0.090	0.0179	±	0.00049	4.04	±	0.092	0.0192	±	0.00052
0.0120	±	0.0015	2	1080	+	1	7628	52%	4.20	±	0.019	0.0174	±	0.00010	4.13	±	0.019	0.0187	±	0.00011
0.0140	±	0.0015	2	2113	+	1	7628	48%	4.31	±	0.058	0.0168	±	0.00032	4.24	±	0.059	0.0181	±	0.00033
0.0140	±	0.0015	1	7628	+	1	7628	41%	4.56	±	0.149	0.0154	±	0.00082	4.50	±	0.153	0.0166	±	0.00086
0.0150	±	0.0015	2	7628	+	1	106	44%	4.46	±	0.061	0.0160	±	0.00034	4.40	±	0.063	0.0172	±	0.00035
0.0150	±	0.0015	2	2113	+	1	7628	50%	4.25	±	0.073	0.0171	±	0.00040	4.18	±	0.075	0.0184	±	0.00042
0.0160	±	0.0015	2	7628	+	1	106	47%	4.34	±	0.019	0.0166	±	0.00010	4.27	±	0.019	0.0179	±	0.00011
0.0180	±	0.0015	2	1080	+	2	7628	48%	4.31	±	0.065	0.0168	±	0.00036	4.24	±	0.067	0.0180	±	0.00038
0.0200	±	0.002	3	7628				38%	4.67	±	0.173	0.0149	±	0.00095	4.61	±	0.177	0.0160	±	0.00099
0.0200	±	0.002	2	2113	+	2	7628	44%	4.45	±	0.069	0.0161	±	0.00038	4.38	±	0.071	0.0173	±	0.00040
0.0210	±	0.002	2	1080	+	2	7628	51%	4.21	±	0.036	0.0174	±	0.00020	4.14	±	0.037	0.0187	±	0.00021
0.0220	±	0.002	3	7628				44%	4.47	±	0.102	0.0159	±	0.00056	4.40	±	0.105	0.0172	±	0.00059
0.0230	±	0.002	3	7628				45%	4.40	±	0.090	0.0163	±	0.00049	4.33	±	0.092	0.0175	±	0.00052
0.0250	±	0.002	2	1080	+	3	7628	46%	4.38	±	0.020	0.0164	±	0.00011	4.31	±	0.020	0.0177	±	0.00011
0.0280	±	0.002	2	2116	+	3	7628	41%	4.54	±	0.076	0.0155	±	0.00042	4.48	±	0.078	0.0167	±	0.00044
0.0290	±	0.002	2	2116	+	3	7628	44%	4.45	±	0.038	0.0160	±	0.00021	4.39	±	0.039	0.0172	±	0.00022



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<b>0.0300</b>	±	0.002	4	7628					44%	4.47	±	0.102	0.0159	±	0.00056	4.40	±	0.105	0.0172	±	0.00059
<b>0.0310</b>	±	0.003	4	7628					45%	4.40	±	0.115	0.0163	±	0.00063	4.33	±	0.119	0.0175	±	0.00066
<b>0.0620</b>	±	0.003	8	7628					45%	4.40	±	4.400	0.0163	±	0.01631	4.33	±	4.334	0.0175	±	0.01754

### PREPREG:

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	Thickness (inches)
<b>106</b>	75	3.57	0.0136	3.53	0.0142	0.0025
<b>1080</b>	65	3.79	0.0131	3.76	0.0137	0.0033
<b>2113</b>	58	3.97	0.0127	3.94	0.0134	0.0043
<b>2116</b>	56	4.03	0.0126	3.99	0.0133	0.0054
<b>7628</b>	44.0	4.41	0.0118	4.38	0.0126	0.0077

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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