



N4800-20SI – Dielectric Properties Table

LAMINATE:

Thickness & Tolerance			Construction							RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			40 GHz Dk			40 GHz Df		
0.0020	±	0.0005	1	106						74%	3.18	±	0.039	0.0064	±	0.00010	3.13	±	0.039	0.0066	±	0.00009	3.12	±	0.039	0.0069	±	0.00009
0.0020	±	0.0005	1	1035						70%	3.22	±	0.035	0.0062	±	0.00009	3.18	±	0.035	0.0065	±	0.00008	3.17	±	0.035	0.0068	±	0.00008
0.0020	±	0.0005	1	1067						70%	3.22	±	0.035	0.0062	±	0.00009	3.18	±	0.035	0.0065	±	0.00008	3.17	±	0.035	0.0068	±	0.00008
0.0025	±	0.0005	1	1078						63%	3.31	±	0.023	0.0060	±	0.00006	3.26	±	0.023	0.0064	±	0.00005	3.25	±	0.023	0.0067	±	0.00005
0.0030	±	0.0005	1	1078						68%	3.25	±	0.016	0.0062	±	0.00004	3.20	±	0.016	0.0065	±	0.00004	3.19	±	0.016	0.0068	±	0.00004
0.0035	±	0.0005	1	2013						55%	3.42	±	0.022	0.0057	±	0.00006	3.38	±	0.022	0.0061	±	0.00005	3.36	±	0.022	0.0064	±	0.00005
0.0040	±	0.0005	2	1035						70%	3.22	±	0.003	0.0062	±	0.00001	3.18	±	0.003	0.0065	±	0.00001	3.17	±	0.003	0.0068	±	0.00001
0.0040	±	0.0005	2	1067						70%	3.22	±	0.003	0.0062	±	0.00001	3.18	±	0.003	0.0065	±	0.00001	3.17	±	0.003	0.0068	±	0.00001
0.0040	±	0.0005	1	2013						60%	3.35	±	0.011	0.0059	±	0.00003	3.30	±	0.010	0.0063	±	0.00002	3.29	±	0.010	0.0066	±	0.00002
0.0040	±	0.0005	1	2116						50%	3.50	±	0.026	0.0055	±	0.00007	3.45	±	0.025	0.0059	±	0.00006	3.44	±	0.025	0.0062	±	0.00006
0.0050	±	0.0007	1	2116						59%	3.37	±	0.021	0.0059	±	0.00006	3.32	±	0.021	0.0062	±	0.00005	3.31	±	0.021	0.0065	±	0.00005
0.0050	±	0.0007	2	1078						63%	3.31	±	0.002	0.0060	±	0.00001	3.26	±	0.002	0.0064	±	0.00000	3.25	±	0.002	0.0067	±	0.00000
0.0060	±	0.0007	2	1078						68%	3.25	±	0.001	0.0062	±	0.00000	3.20	±	0.001	0.0065	±	0.00000	3.19	±	0.001	0.0068	±	0.00000
0.0070	±	0.001	2	2013						55%	3.42	±	0.022	0.0057	±	0.00006	3.38	±	0.022	0.0061	±	0.00005	3.36	±	0.022	0.0064	±	0.00005
0.0070	±	0.001	2	1078	+	1	1035			65%	3.29	±	0.005	0.0061	±	0.00001	3.24	±	0.005	0.0064	±	0.00001	3.23	±	0.005	0.0067	±	0.00001
0.0080	±	0.001	2	2116						50%	3.50	±	0.026	0.0055	±	0.00007	3.45	±	0.025	0.0059	±	0.00006	3.44	±	0.025	0.0062	±	0.00006
0.0080	±	0.001	2	2013						60%	3.35	±	0.011	0.0059	±	0.00003	3.30	±	0.010	0.0063	±	0.00002	3.29	±	0.010	0.0066	±	0.00002
0.0080	±	0.001	2	1078	+	1	1035			69%	3.24	±	0.004	0.0062	±	0.00001	3.19	±	0.004	0.0065	±	0.00001	3.18	±	0.004	0.0068	±	0.00001
0.0090	±	0.001	1	2116	+	1	2116			55%	3.42	±	0.012	0.0057	±	0.00003	3.38	±	0.012	0.0061	±	0.00003	3.37	±	0.012	0.0064	±	0.00003
0.0100	±	0.001	2	2116						59%	3.37	±	0.004	0.0059	±	0.00001	3.32	±	0.004	0.0062	±	0.00001	3.31	±	0.004	0.0065	±	0.00001



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Thickness & Tolerance			Construction						RC%	2GHz Dk			2 GHz Df			10 GHz Dk			10 GHz Df			40 GHz Dk			40 GHz Df				
0.0100	±	0.001	2	2116	+	1	1078				51%	3.49	±	0.004	0.0056	±	0.00001	3.44	±	0.004	0.0060	±	0.00001	3.43	±	0.004	0.0063	±	0.00001
0.0100	±	0.001	2	1078	+	1	2013				65%	3.29	±	0.002	0.0061	±	0.00001	3.24	±	0.002	0.0064	±	0.00001	3.23	±	0.002	0.0067	±	0.00001
0.0120	±	0.0015	2	2013	+	1	2116				57%	3.40	±	0.014	0.0058	±	0.00004	3.35	±	0.014	0.0062	±	0.00003	3.34	±	0.014	0.0065	±	0.00003
0.0140	±	0.0015	2	2116	+	1	2116				56%	3.40	±	0.009	0.0058	±	0.00002	3.36	±	0.009	0.0062	±	0.00002	3.34	±	0.009	0.0065	±	0.00002
0.0140	±	0.0015	2	1078	+	2	2116				57%	3.39	±	0.007	0.0058	±	0.00002	3.34	±	0.007	0.0062	±	0.00001	3.33	±	0.007	0.0065	±	0.00001
0.0150	±	0.0015	2	2116	+	1	2116				59%	3.37	±	0.004	0.0059	±	0.00001	3.32	±	0.004	0.0062	±	0.00001	3.31	±	0.004	0.0065	±	0.00001
0.0160	±	0.0015	4	2116							50%	3.50	±	0.007	0.0055	±	0.00002	3.45	±	0.006	0.0059	±	0.00001	3.44	±	0.006	0.0062	±	0.00001
0.0160	±	0.0015	2	1078	+	3	2013				60%	3.36	±	0.020	0.0059	±	0.00005	3.31	±	0.019	0.0063	±	0.00004	3.30	±	0.019	0.0066	±	0.00004
0.0180	±	0.0015	2	2116	+	2	2116				55%	3.42	±	0.002	0.0057	±	0.00001	3.38	±	0.002	0.0061	±	0.00001	3.37	±	0.002	0.0064	±	0.00001
0.0200	±	0.002	2	2116	+	3	2116				50%	3.50	±	0.010	0.0055	±	0.00003	3.45	±	0.010	0.0059	±	0.00002	3.44	±	0.010	0.0062	±	0.00002

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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PREPREG:

Glass	RC%	2 GHz Dk	2GHz Df	10GHz Dk	10GHz Df	40GHz Dk	40GHz Df	Thickness (inches)
106	78	3.13	0.0065	3.09	0.0067	3.08	0.0070	0.0024
1035	78	3.13	0.0065	3.09	0.0067	3.08	0.0070	0.0029
1067	77	3.14	0.0065	3.10	0.0067	3.09	0.0070	0.0028
1078	68	3.25	0.0062	3.20	0.0065	3.19	0.0068	0.0031
1078	71	3.21	0.0063	3.16	0.0066	3.15	0.0069	0.0034
1080	68	3.25	0.0062	3.20	0.0065	3.19	0.0068	0.0031
2013	60	3.35	0.0059	3.30	0.0063	3.29	0.0066	0.0041
2116	58	3.38	0.0058	3.33	0.0062	3.32	0.0065	0.0050

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