



## N4000-2, -6 and -6 FC Dielectric Properties Table

04/03/03

### LAMINATE

Thickness	&	Tol.	Construction			RC%	1 MHz IPC-TM-650 2.5.5.3	1GHz IPC-TM-650 2.5.5.9	2.5 GHz IPC-TM-650 2.5.5.5	10 GHz IPC-TM-650 2.5.5.5
0.002	±	0.0005	1	106		69.0%	3.84 ± 0.11	3.63 ± 0.12	3.63 ± 0.08	3.60 ± 0.08
0.003	±	0.0005	1	1080		62.0%	4.00 ± 0.10	3.80 ± 0.11	3.75 ± 0.08	3.72 ± 0.08
0.004	±	0.0005	1	2113		54.5%	4.19 ± 0.11	4.00 ± 0.11	3.89 ± 0.08	3.85 ± 0.08
0.004	±	0.0005	1	106	+ 1 1080	57.7%	4.11 ± 0.09	3.91 ± 0.10	3.83 ± 0.07	3.79 ± 0.07
0.004	±	0.0005	1	2116		43.0%	4.54 ± 0.15	4.37 ± 0.16	4.15 ± 0.11	4.11 ± 0.11
0.005	±	0.00075	1	106	+ 1 2113	52.8%	4.24 ± 0.13	4.05 ± 0.14	3.93 ± 0.10	3.89 ± 0.10
0.005	±	0.00075	1	2116		51.8%	4.26 ± 0.14	4.08 ± 0.14	3.95 ± 0.10	3.91 ± 0.10
0.006	±	0.00075	1	1080	+ 1 2113	52.2%	4.25 ± 0.11	4.06 ± 0.12	3.94 ± 0.08	3.90 ± 0.08
0.006	±	0.00075	1	106	+ 1 2116	50.8%	4.29 ± 0.12	4.11 ± 0.13	3.97 ± 0.09	3.93 ± 0.09
0.006	±	0.00075	2	2113		43.5%	4.52 ± 0.15	4.35 ± 0.16	4.14 ± 0.11	4.10 ± 0.11
0.006	±	0.00075	1	1500		41.7%	4.58 ± 0.16	4.41 ± 0.17	4.18 ± 0.12	4.15 ± 0.12
0.007	±	0.001	2	2113		49.6%	4.33 ± 0.14	4.14 ± 0.15	3.99 ± 0.10	3.96 ± 0.10
0.008	±	0.001	1	7628		44.4%	4.49 ± 0.15	4.32 ± 0.16	4.12 ± 0.11	4.08 ± 0.11
0.008	±	0.001	2	2116		43.0%	4.54 ± 0.15	4.37 ± 0.16	4.15 ± 0.11	4.11 ± 0.11
0.008	±	0.001	1	2116	+ 1 2113	48.6%	4.36 ± 0.13	4.18 ± 0.14	4.02 ± 0.10	3.98 ± 0.09
0.008	±	0.001	1	7629		42.6%	4.55 ± 0.16	4.38 ± 0.17	4.16 ± 0.12	4.12 ± 0.12
0.009	±	0.001	2	2116		47.8%	4.38 ± 0.12	4.20 ± 0.13	4.04 ± 0.09	4.00 ± 0.09
0.010	±	0.001	2	2116		51.8%	4.26 ± 0.09	4.08 ± 0.10	3.95 ± 0.07	3.91 ± 0.07
0.010	±	0.001	1	7628	+ 1 1080	45.0%	4.47 ± 0.12	4.29 ± 0.13	4.10 ± 0.09	4.06 ± 0.09
0.010	±	0.001	1	7635		47.5%	4.39 ± 0.11	4.21 ± 0.12	4.04 ± 0.08	4.01 ± 0.08
0.012	±	0.001	2	1080	+ 1 7628	45.5%	4.46 ± 0.10	4.28 ± 0.11	4.09 ± 0.07	4.05 ± 0.07
0.014	±	0.0015	2	7628		38.8%	4.69 ± 0.16	4.53 ± 0.16	4.26 ± 0.11	4.23 ± 0.11
0.0150	±	0.0015	2	7628		41.7%	4.58 ± 0.13	4.41 ± 0.14	4.18 ± 0.10	4.15 ± 0.10
0.0180	±	0.0015	2	7628	+ 1 2113	42.0%	4.57 ± 0.11	4.40 ± 0.12	4.18 ± 0.08	4.14 ± 0.08
0.0210	±	0.002	2	7628	+ 1 7628	38.8%	4.69 ± 0.14	4.53 ± 0.15	4.26 ± 0.10	4.23 ± 0.10

This document contains a list of typical constructions and their associated dielectric values and is provided as a reference tool only. Specific construction lists are dependant on product and region and can be obtained by contacting your local sales, technical or customer service representative.



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PREPREG RESIN CONTENT				1MHz			1 GHz		
Mean	Min	Max		Mean	Min	Max	Mean	Min	Max
75	72	78	106	3.72	3.78	3.66	3.50	3.56	3.44
65	62	68	1080	3.93	4.00	3.86	3.72	3.80	3.65
58	55	61	2113	4.10	4.18	4.02	3.90	3.98	3.82
55	52	58	2116	4.18	4.26	4.10	3.98	4.07	3.90
43.5	42	45	7628	4.52	4.57	4.47	4.35	4.40	4.30

PREPREG RESIN CONTENT				2.5 GHz			10 GHz		
Mean	Min	Max		Mean	Min	Max	Mean	Min	Max
75	72	78	106	3.59	3.63	3.55	3.51	3.55	3.46
65	62	68	1080	3.72	3.76	3.68	3.66	3.72	3.61
58	55	61	2113	3.82	3.87	3.78	3.79	3.85	3.73
55	52	58	2116	3.87	3.92	3.82	3.85	3.91	3.79
43.5	42	45	7628	4.08	4.11	4.05	4.10	4.14	4.06

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