

Based Material Line Up



ST110G/ST110GB

1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk			Df		
mil	mm			1 MHz	1 GHz	10 GHz	1 MHz	1 GHz	10 GHz
2.0	0.050	2x1017	74	4.65	4.31	4.54	0.0167	0.0090	0.0119
2.5	0.064	2x1017	80	4.57	4.24	4.43	0.0174	0.0094	0.0122
3.0	0.075	1X106	84	4.51	4.19	4.35	0.0179	0.0096	0.0123
4.0	0.102	1x106	88	4.44	4.13	4.26	0.0185	0.0099	0.0125
4.3	0.110	2x1027	82	4.54	4.21	4.39	0.0177	0.0095	0.0122
5.0	0.130	2X1027	84	4.49	4.17	4.33	0.0180	0.0097	0.0123
5.0	0.130	1X2116	61	4.86	4.50	4.81	0.0150	0.0082	0.0114
6.0	0.150	2X106	84	4.51	4.19	4.35	0.0179	0.0096	0.0123
6.0	0.150	1X2116	67	4.77	4.42	4.70	0.0157	0.0085	0.0116
8.0	0.200	2X106	88	4.44	4.13	4.26	0.0185	0.0099	0.0125
10.0	0.250	2X2116	61	4.86	4.50	4.81	0.0150	0.0082	0.0114
12.0	0.300	3X106	88	4.44	4.13	4.26	0.0185	0.0099	0.0125
12.0	0.300	2X2116	67	4.77	4.42	4.70	0.0157	0.0085	0.0116
14.0	0.360	3X2116	59	4.89	4.53	4.85	0.0147	0.0081	0.0114

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16.0	0.400	3X2116	63	4.83	4.48	4.77	0.0152	0.0083	0.0115
20.0	0.510	4X2116	61	4.86	4.50	4.81	0.0150	0.0082	0.0114
40.0	1.000	7X2116	65	4.80	4.45	4.73	0.0155	0.0085	0.0116

2. PREPREG (B-STAGE)

Glass style	RC (%) Nominal	Thickness		Dk			Df		
		mil	um	1MHz	1GHz	10GHz	1 MHz	1 GHz	10 GHz
1027	80	2.0	51	4.56	4.23	4.41	0.0175	0.0094	0.0122
1027	84	2.5	64	4.50	4.18	4.34	0.0180	0.0096	0.0123
1027	87	3	76	4.46	4.14	4.28	0.0183	0.0098	0.0124
106	86	3.5	90	4.47	4.15	4.30	0.0183	0.0098	0.0124
106	88	4.1	105	4.44	4.12	4.25	0.0185	0.0099	0.0125
1080	81	5	125	4.55	4.22	4.40	0.0176	0.0095	0.0122
2116	67	6	150	4.77	4.42	4.70	0.0157	0.0085	0.0116

3. REMARK

- 1) 1MHz、1GHz data, test by IPC-TM-650 2.5.5.9 method; 10GHz data, test by SPDR method.
- 2) The data above show actual values and are not guaranteed.
- 3) Last update: September, 2022.