Based Material Line Up

SI10U(S)/SI10NB(S)

1. CORE (C-STAGE)

Type	SPEC	Actual Thickness		ply-up	Dk			Df		
		mm	mil		1 GHz	5 GHz	10 GHz	1 GHz	5 GHz	10 GHz
Standard	0.03	0.033	1.30	1X1037	4.50	4.48	4.47	0.010	0.011	0.011
	0.04	0.043	1.69	1x1067	4.51	4.50	4.48	0.010	0.011	0.011
	0.05	0.053	2.09	1x1078	4.69	4.68	4.66	0.008	0.009	0.009
	0.06	0.060	2.36	1x1078	4.58	4.57	4.55	0.009	0.010	0.010
	0.08	0.086	3.39	2x1067	4.51	4.50	4.48	0.010	0.011	0.011
	0.10	0.106	4.17	2x1078	4.69	4.68	4.66	0.008	0.009	0.009
	0.13	0.136	5.28	1078+1037+1078	4.63	4.61	4.59	0.009	0.010	0.010
	0.15	0.159	6.26	3x1078	4.69	4.68	4.66	0.008	0.009	0.009
	0.18	0.186	7.32	1067+2116+1067	4.68	4.67	4.65	0.008	0.009	0.009
	0.20	0.210	8.27	2x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.25	0.260	10.23	2116+1078+2116	4.70	4.68	4.67	0.008	0.009	0.009
	0.30	0.315	12.40	3x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.40	0.420	16.54	4x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.50	0.510	20.08	5x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.60	0.610	24.02	6x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.70	0.710	27.95	7x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.80	0.810	31.89	8x2116	4.79	4.77	4.76	0.008	0.009	0.009
M	0.04	0.043	1.69	2x1017	4.40	4.39	4.37	0.011	0.012	0.012
	0.05	0.052	2.05	2x1027	4.50	4.48	4.47	0.010	0.011	0.011

	0.06	0.060	2.36	2x1037	4.50	4.48	4.47	0.010	0.011	0.011
	0.20	0.212	8.35	4X1078	4.69	4.68	4.66	0.008	0.009	0.009
H	0.03	0.033	1.30	1X1024	4.50	4.48	4.47	0.010	0.011	0.011
	0.04	0.043	1.69	2X1015	4.57	4.56	4.54	0.009	0.010	0.010
	0.05	0.052	2.05	2X1024	4.69	4.68	4.66	0.008	0.009	0.009
	0.06	0.066	2.60	2X1030	4.70	4.68	4.67	0.008	0.009	0.009

Remark:

1)Type M: Multi-ply; H: High density glass fabric;

2. PREPREG (B-STAGE)

Glass style	RC (%)	Nominal Thickness		Dk			Df		
		mm	mil	1GHz	5GHz	10GHz	1 GHz	5 GHz	10 GHz
1078	64	0.070	2.76	4.48	4.46	4.45	0.010	0.011	0.011
1078	59	0.060	2.36	4.60	4.59	4.57	0.009	0.010	0.010
1067	72	0.060	2.36	4.33	4.31	4.29	0.012	0.013	0.013
1067	67	0.050	1.97	4.40	4.39	4.37	0.011	0.012	0.012
1037	75	0.050	1.97	4.31	4.29	4.28	0.012	0.013	0.013
1037	69	0.040	1.57	4.40	4.39	4.37	0.011	0.012	0.012
1027	73	0.040	1.57	4.33	4.31	4.29	0.012	0.013	0.013
1027	65	0.030	1.18	4.48	4.46	4.45	0.010	0.011	0.011
1017	76	0.030	1.18	4.31	4.29	4.28	0.012	0.013	0.013
1017	72	0.025	1.00	4.33	4.31	4.29	0.012	0.013	0.013

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3. REMARK

    1) Test by SPDR method
    2) The data above show actual values and are not guaranteed.
    3) Last update: Dec, 2020

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