

# Based Material Line Up



## SI10US/SI10NSB

### 1. CORE (C-STAGE)

Type	SPEC	Nominal Thickness		ply-up	Dk			Df		
		mm	mil		1 GHz	5 GHz	10 GHz	1 GHz	5 GHz	10 GHz
Standard	0.03	0.033	1.3	1X1037	4.50	4.48	4.47	0.010	0.011	0.011
	0.04	0.043	1.7	1x1067	4.51	4.50	4.48	0.010	0.011	0.011
	0.05	0.053	2.1	1x1078	4.69	4.68	4.66	0.008	0.009	0.009
	0.06	0.060	2.4	1x1078	4.58	4.57	4.55	0.009	0.010	0.010
	0.08	0.086	3.4	2x1067	4.51	4.50	4.48	0.010	0.011	0.011
	0.10	0.106	4.2	2x1078	4.69	4.68	4.66	0.008	0.009	0.009
	0.13	0.136	5.3	1078+1037+1078	4.63	4.61	4.59	0.009	0.010	0.010
	0.15	0.159	6.3	3x1078	4.69	4.68	4.66	0.008	0.009	0.009
	0.18	0.186	7.3	1067+2116+1067	4.68	4.67	4.65	0.008	0.009	0.009
	0.20	0.210	8.3	2x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.25	0.260	10.2	2116+1078+2116	4.70	4.68	4.67	0.008	0.009	0.009
	0.30	0.315	12.4	3x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.40	0.420	16.5	4x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.50	0.510	20.1	5x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.60	0.610	24.0	6x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.70	0.710	28.0	7x2116	4.79	4.77	4.76	0.008	0.009	0.009
	0.80	0.810	31.9	8x2116	4.79	4.77	4.76	0.008	0.009	0.009
M	0.04	0.043	1.7	2x1017	4.40	4.39	4.37	0.011	0.012	0.012
	0.05	0.052	2.1	2x1027	4.50	4.48	4.47	0.010	0.011	0.011

# Based Material Line Up



	0.06	0.060	2.4	2x1037	4.50	4.48	4.47	0.010	0.011	0.011
	0.20	0.212	8.4	4X1078	4.69	4.68	4.66	0.008	0.009	0.009
H	0.03	0.033	1.3	1X1024	4.50	4.48	4.47	0.010	0.011	0.011
	0.04	0.043	1.7	2X1015	4.57	4.56	4.54	0.009	0.010	0.010
	0.05	0.052	2.1	2X1024	4.69	4.68	4.66	0.008	0.009	0.009
	0.06	0.066	2.6	2X1030	4.70	4.68	4.67	0.008	0.009	0.009

Remark:

- 1) Type M: Multiple ply-up
- 2) Type H: High density glass fabric
- 3) Type LC: Low CTE glass
- 4) Type LCH: Low CTE/High density glass

## 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

## 3. REMARK

- 1) Tested by SPDR method
- 2) The data above showed typical values and are not guaranteed.
- 3) Last update: March 2021