

Base Material Line Up



S7439G/S7439GB

1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk				Df			
mm	mil			1 GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
0.051	2.0	1x106	71	3.39	3.38	3.38	3.38	0.0052	0.0056	0.0060	0.0064
0.051	2.0	1x1067	65	3.53	3.52	3.52	3.52	0.0051	0.0055	0.0059	0.0063
0.064	2.5	1x106	76	3.28	3.27	3.27	3.27	0.0054	0.0058	0.0062	0.0066
0.064	2.5	1x1067	71	3.39	3.38	3.38	3.38	0.0052	0.0056	0.0060	0.0064
0.076	3.0	1x1078	64	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062
0.076	3.0	1x1080	64	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062
0.076	3.0	1x1086	62	3.60	3.59	3.59	3.59	0.0050	0.0054	0.0058	0.0062
0.089	3.5	2x1067	61	3.62	3.61	3.61	3.61	0.0049	0.0053	0.0057	0.0061
0.089	3.5	1x3313	51	3.84	3.83	3.83	3.83	0.0046	0.0050	0.0054	0.0058
0.102	4.0	2x106	71	3.39	3.38	3.38	3.38	0.0052	0.0056	0.0060	0.0064
0.102	4.0	2x1067	65	3.53	3.52	3.52	3.52	0.0051	0.0055	0.0059	0.0063
0.102	4.0	1x3313	56	3.73	3.72	3.72	3.72	0.0048	0.0052	0.0056	0.0060
0.102	4.0	1x2116	47	3.93	3.92	3.92	3.92	0.0045	0.0049	0.0053	0.0057
0.114	4.5	1x2116	51	3.84	3.83	3.83	3.83	0.0046	0.0050	0.0054	0.0058
0.127	5.0	2x106	76	3.28	3.27	3.27	3.27	0.0054	0.0058	0.0062	0.0066
0.127	5.0	2x1067	71	3.39	3.38	3.38	3.38	0.0052	0.0056	0.0060	0.0064
0.127	5.0	1x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
0.152	6.0	2x1078	64	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062
0.152	6.0	2x1080	64	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062

Base Material Line Up



0.178	7.0	2x3313	51	3.84	3.83	3.83	3.83	0.0046	0.0050	0.0054	0.0058
0.203	8.0	2x3313	56	3.73	3.72	3.72	3.72	0.0048	0.0052	0.0056	0.0060
0.203	8.0	2x2116	47	3.93	3.92	3.92	3.92	0.0045	0.0049	0.0053	0.0057
0.229	9.0	3x1080	64	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062
0.229	9.0	2x2116	51	3.84	3.83	3.83	3.83	0.0046	0.0050	0.0054	0.0058
0.254	10.0	2x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
0.305	12.0	3x2116	47	3.93	3.92	3.92	3.92	0.0045	0.0049	0.0053	0.0057
0.381	15.0	3x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
0.457	18.0	4x2116	51	3.84	3.83	3.83	3.83	0.0046	0.0050	0.0054	0.0058
0.508	20.0	4x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
0.635	25.0	5x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
0.711	28.0	7x2116	47	3.93	3.92	3.92	3.92	0.0045	0.0049	0.0053	0.0057
0.762	30.0	6x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
0.889	35.0	7x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
1.016	40.0	8x2116	55	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
1.219	48.0	12x2116	47	3.93	3.92	3.92	3.92	0.0045	0.0049	0.0053	0.0057
1.321	52.0	13x2116	47	3.93	3.92	3.92	3.92	0.0045	0.0049	0.0053	0.0057
1.460	57.5	13x2116	51	3.84	3.83	3.83	3.83	0.0046	0.0050	0.0054	0.0058

2. PREPREG (B-STAGE)

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
106	71	0.051	2.0	3.39	3.38	3.38	3.38	0.0052	0.0056	0.0060	0.0064
106	76	0.064	2.5	3.28	3.27	3.27	3.27	0.0054	0.0058	0.0062	0.0066

Base Material Line Up



1067	65	0.051	2.0	3.53	3.52	3.52	3.52	0.0051	0.0055	0.0059	0.0063
1067	71	0.064	2.5	3.39	3.38	3.38	3.38	0.0052	0.0056	0.0060	0.0064
1067	74	0.071	2.8	3.33	3.32	3.32	3.32	0.0053	0.0057	0.0061	0.0065
1078	62	0.071	2.8	3.60	3.59	3.59	3.59	0.0050	0.0054	0.0058	0.0062
1078	64	0.076	3.0	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062
1078	68	0.086	3.4	3.46	3.45	3.45	3.45	0.0051	0.0055	0.0059	0.0063
1080	62	0.071	2.8	3.60	3.59	3.59	3.59	0.0050	0.0054	0.0058	0.0062
1080	64	0.076	3.0	3.55	3.54	3.54	3.54	0.0050	0.0054	0.0058	0.0062
1080	66	0.081	3.2	3.51	3.50	3.50	3.50	0.0051	0.0055	0.0059	0.0063
1080	68	0.086	3.4	3.46	3.45	3.45	3.45	0.0051	0.0055	0.0059	0.0063
1080	70	0.094	3.7	3.42	3.41	3.41	3.41	0.0052	0.0056	0.0060	0.0064
3313	53	0.097	3.8	3.80	3.79	3.79	3.79	0.0047	0.0051	0.0055	0.0059
3313	56	0.102	4.0	3.73	3.72	3.72	3.72	0.0048	0.0052	0.0056	0.0060
3313	58	0.109	4.3	3.69	3.68	3.68	3.68	0.0048	0.0052	0.0056	0.0060
3313	60	0.117	4.6	3.64	3.63	3.63	3.63	0.0049	0.0053	0.0057	0.0061
2116	53	0.122	4.8	3.80	3.79	3.79	3.79	0.0047	0.0051	0.0055	0.0059
2116	55	0.127	5.0	3.75	3.74	3.74	3.74	0.0048	0.0052	0.0056	0.0060
2116	57	0.135	5.3	3.71	3.70	3.70	3.70	0.0048	0.0052	0.0056	0.0060
2116	59	0.145	5.7	3.66	3.65	3.65	3.65	0.0049	0.0053	0.0057	0.0061

3. REMARK

- 1) Dk/Df test method: IPC TM-650 2.5.5.5
- 2) Copper foil: RTF 18μm, 35μm, 70μm.
- 3) All the values listed above are for your reference only. Please contact Shengyi Technology Co., Ltd. for detailed information. All rights from this line up are reserved by Shengyi Technology Co., Ltd.
- 4) Updated date: Jul., 2019