

Based Material Line Up



S7439/S7439B

1. CORE (C-STAGE)

Core Specifications

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	2.00	1 x1067	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.064	2.50	1 x1080 / 1 x1078	58	3.62	3.61	3.61	3.61	0.0048	0.0053	0.0057	0.0061
0.076	3.00	1 x1080 / 1 x1078	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.089	3.50	1 x3313	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.089	3.50	2 x1067	60	3.57	3.56	3.56	3.56	0.0049	0.0052	0.0057	0.0061
0.102	4.00	1 x3313	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.102	4.00	2 x1067	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.114	4.50	1 x2116	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.127	5.00	1 x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.127	5.00	2 x 1080 / 2 x 1078	58	3.62	3.61	3.61	3.61	0.0048	0.0053	0.0057	0.0061
0.140	5.50	2 x 1080 / 2 x 1078	62	3.53	3.52	3.52	3.52	0.0050	0.0054	0.0057	0.0062
0.152	6.00	2 x 1080 / 2 x 1078	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.178	7.00	2 x 3313	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.178	7.00	1 x 1506	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.203	8.00	2 x 3313	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.254	10.00	2 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.381	15.00	3 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060

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0.508	20.00	4 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.635	25.00	5 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.762	30.00	6 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.889	35.00	7 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
1.016	40.00	8 x 2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060

Unconventional core specs

Thickness		ply-up	RC (%)	Dk				Df			
mm	mil			1 GHz	3 GHz	5 GHz	10 GHz	1 GHz	3 GHz	5 GHz	10 GHz
0.089	3.50	2 x106	68	3.39	3.38	3.38	3.38	0.0050	0.0055	0.0059	0.0063
0.305	12.00	2 X 2116 + 1 X1080	55	3.70	3.69	3.69	3.69	0.0049	0.0053	0.0057	0.0060
0.356	14.00	3 x 2116	53	3.74	3.73	3.73	3.73	0.0047	0.0051	0.0056	0.0059
0.406	16.00	4 x 3313	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.457	18.00	4 x 2116	53	3.74	3.73	3.73	3.73	0.0047	0.0051	0.0056	0.0059

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2. PREPREG (B-STAGE)

Prepreg Specifications

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
106	72	0.051	2.00	3.30	3.29	3.29	3.29	0.0052	0.0056	0.0060	0.0064
106	75	0.058	2.30	3.24	3.23	3.23	3.23	0.0053	0.0056	0.0060	0.0065
1067	66	0.053	2.10	3.43	3.42	3.42	3.42	0.0051	0.0055	0.0059	0.0063
1067	69	0.058	2.30	3.37	3.36	3.36	3.36	0.0052	0.0056	0.0059	0.0063
1067	74	0.071	2.80	3.26	3.25	3.25	3.25	0.0052	0.0056	0.0060	0.0064
1080 / 1078	64	0.076	3.00	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
1080 / 1078	67	0.084	3.30	3.41	3.40	3.40	3.40	0.0049	0.0054	0.0059	0.0063
1080 / 1078	69	0.091	3.60	3.37	3.36	3.36	3.36	0.0052	0.0056	0.0059	0.0063
3313	53	0.094	3.70	3.74	3.73	3.73	3.73	0.0047	0.0051	0.0056	0.0059
3313	55	0.099	3.90	3.70	3.69	3.69	3.69	0.0049	0.0053	0.0057	0.0060
3313	58	0.107	4.20	3.62	3.61	3.61	3.61	0.0048	0.0053	0.0057	0.0061
3313	63	0.122	4.80	3.50	3.49	3.49	3.49	0.0050	0.0054	0.0058	0.0062
2116	53	0.119	4.70	3.74	3.73	3.73	3.73	0.0047	0.0051	0.0056	0.0059
2116	55	0.124	4.90	3.70	3.69	3.69	3.69	0.0049	0.0053	0.0057	0.0060
2116	58	0.137	5.40	3.62	3.61	3.61	3.61	0.0048	0.0053	0.0057	0.0061
1506	51	0.178	7.00	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059

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Unconventional prepreg specs

Glass style	RC (%) Nominal	Thickness		Dk				Df			
		mm	mil	1GHz	3GHz	5GHz	10GHz	1 GHz	3 GHz	5 GHz	10 GHz
1067	67	0.056	2.20	3.41	3.40	3.40	3.40	0.0049	0.0054	0.0059	0.0063
1067	71	0.064	2.50	3.33	3.32	3.32	3.32	0.0052	0.0057	0.0060	0.0064
1067	72	0.066	2.60	3.30	3.29	3.29	3.29	0.0052	0.0056	0.0060	0.0064
1080 / 1078	66	0.081	3.20	3.43	3.42	3.42	3.42	0.0051	0.0055	0.0059	0.0063
1080 / 1078	71	0.097	3.80	3.33	3.32	3.32	3.32	0.0052	0.0057	0.0060	0.0064
1080 / 1078	74	0.102	4.00	3.26	3.25	3.25	3.25	0.0052	0.0056	0.0060	0.0064
3313	57	0.102	4.00	3.64	3.63	3.63	3.63	0.0047	0.0053	0.0057	0.0061

3. REMARK

- 1) Dk/Df measuring method: IPC TM-650 2.5.5.5
- 2) Copper foil: RTF 18 μ m, 35 μ m, 70 μ m.
- 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) Last update: Aug, 2018