

Based Material Line Up



S7439C/S7439CB

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	2.00	1x106	72	3.30	3.29	3.29	3.29	0.0053	0.0057	0.0061	0.0065
0.051	2.00	1x1067	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.076	3.00	1x1080/1x1078	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.089	3.50	1x3313	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.102	4.00	1x3313	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.102	4.00	1x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
0.102	4.00	2x1067	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.102	4.00	2x106	72	3.30	3.29	3.29	3.29	0.0053	0.0057	0.0061	0.0065
0.114	4.50	1x2116	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.127	5.00	1x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.127	5.00	2x1080/2x1078	58	3.62	3.61	3.61	3.61	0.0048	0.0053	0.0057	0.0061
0.14	5.50	2x1080/2x1078	62	3.53	3.52	3.52	3.52	0.0050	0.0054	0.0057	0.0062
0.152	6.00	2x1080/2x1078	64	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
0.178	7.00	2x3313	51	3.80	3.79	3.79	3.79	0.0046	0.0050	0.0054	0.0059
0.203	8.00	2x3313	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.203	8.00	2x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
0.254	10.00	2x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.381	15.00	3x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.508	20.00	4x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060

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0.635	25.00	5x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.762	30.00	6x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
0.813	32.00	8x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
0.889	35.00	7x2116	56	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
1.016	40.00	10x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
1.118	44.00	11x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
1.219	48.00	12x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
1.321	52.00	13x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
1.422	56.00	14x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057
1.524	60.00	15x2116	47	3.90	3.89	3.89	3.89	0.0043	0.0047	0.0047	0.0057

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	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	64	0.051	2.00	3.48	3.47	3.47	3.47	0.0050	0.0055	0.0058	0.0062
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	71	0.064	2.50	3.33	3.32	3.32	3.32	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	66	0.081	3.20	3.43	3.42	3.42	3.42	0.0051	0.0055	0.0059	0.0063

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1080/1078	69	0.091	3.60	3.37	3.36	3.36	3.36	0.0052	0.0056	0.0059	0.0063
3313	56	0.102	4.00	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	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	60	0.114	4.50	3.57	3.56	3.56	3.56	0.0049	0.0052	0.0057	0.0061
2116	54	0.122	4.80	3.72	3.71	3.71	3.71	0.0048	0.0052	0.0056	0.0059
2116	56	0.127	5.00	3.67	3.66	3.66	3.66	0.0048	0.0052	0.0056	0.0060
2116	58	0.137	5.40	3.62	3.61	3.61	3.61	0.0048	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: Spet, 2019