

Based Material Line Up

Autolad2GH Core/Prepreg Line up

1. Core (C-Stage)

Thickness		ply-up	RC (%)	Dk			Df		
mm	mil			1 GHz	3 GHz	5 GHz	1 GHz	3 GHz	5 GHz
0.100	4.00	1X3313	58	4.13	4.11	4.10	0.0170	0.0160	0.0150
0.130	5.00	1X2116	57	4.15	4.13	4.13	0.0160	0.0150	0.0140
0.150	6.00	1X1506	46	4.45	4.43	4.43	0.0130	0.0120	0.0120
0.180	7.00	1X7628	43	4.55	4.53	4.48	0.0130	0.0120	0.0110
0.200	8.00	1X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120
0.250	10.00	2X2116	57	4.15	4.13	4.13	0.0160	0.0150	0.0140
0.254	10.00	3X1080	69	4.07	4.05	4.05	0.0180	0.0170	0.0170
0.300	12.00	2X1506	46	4.45	4.43	4.43	0.0130	0.0120	0.0120
0.300	12.00	2X2116+1X1080	56	4.17	4.15	4.15	0.0160	0.0150	0.0140
0.360	14.00	2X7628	43	4.55	4.53	4.48	0.0130	0.0120	0.0110
0.380	15.00	2X7628	45	4.50	4.48	4.43	0.0130	0.0120	0.0120
0.380	15.00	3X2116	57	4.15	4.13	4.13	0.0160	0.0150	0.0140
0.400	15.70	2X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120
0.530	21.00	3X7628	43	4.55	4.53	4.48	0.0130	0.0120	0.0110
0.710	28.00	4X7628	43	4.55	4.53	4.48	0.0130	0.0120	0.0110
0.800	31.00	4X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120
1.000	40.00	5X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120
1.200	48.00	6X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120
1.400	55.00	7X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120

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1.500	59.00	8X7628	45	4.50	4.48	4.43	0.0130	0.0120	0.0120
1.600	63.00	8X7628	48	4.35	4.33	4.33	0.0130	0.0120	0.0120
1.900	74.00	10X7628	45	4.50	4.48	4.43	0.0130	0.0120	0.0120

2. Prepreg (B-Stage)

Glass style	RC (%) Nominal	Thickness		DK			Df		
		mm	mil	1 GHz	3 GHz	5 GHz	1 GHz	3 GHz	5 GHz
1080	71	0.092	3.60	3.80	3.78	3.79	0.0180	0.0170	0.0170
	74	0.104	4.10	3.71	3.69	3.70	0.0180	0.0170	0.0180
2116	57	0.127	5.00	4.15	4.13	4.13	0.0160	0.0150	0.0140
	60	0.138	5.40	4.11	4.09	4.09	0.0170	0.0160	0.0150
	63	0.150	6.00	4.01	3.99	3.99	0.0170	0.0160	0.0150
7628	43	0.180	7.10	4.55	4.53	4.48	0.0130	0.0120	0.0110
	45	0.190	7.50	4.50	4.48	4.43	0.0130	0.0120	0.0120
	48	0.200	8.00	4.35	4.33	4.33	0.0130	0.0120	0.0120
	50	0.210	8.30	4.32	4.31	4.30	0.0140	0.0130	0.0130

3. Remark

- 1) Dk/Df measuring method: IPC TM-650 2.5.5.5;
- 2) In order to satisfy CTI \geq 600V, surface prepreg layer is recommended to use 2116(RC \geq 54%), 7628(RC \geq 45%) or above thickness prepreg.
- 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) Latest update: Jan. 2023