Based Material Line Up

S1600L/S1600LB

1. CORE (C-STAGE)

Thickness		ply-up	RC (%)	Dk		Df	
mm	mil			1 MHz	1 GHz	1 MHz	1 GHz
0.40	15.75	2×7628	47%	5.1	4.7	0.0180	0.0142
0.46	18.11	1×1080+2×7628	51%	5.1	4.6	0.0190	0.0148
0.48	18.90	1×2116+2×7628	47%	5.1	4.6	0.0182	0.0143
0.50	19.69	1×2116+2×7628	49%	5.1	4.6	0.0186	0.0146
0.56	22.05	3×7628	46%	5.1	4.7	0.0178	0.0141
0.60	23.62	3×7628	47%	5.1	4.7	0.0180	0.0142
0.64	25.20	2×2116+2×7628	51%	5.1	4.6	0.0190	0.0148
0.66	25.98	4x2116+1x7628	52%	5.1	4.6	0.0195	0.0149
0.71	27.95	4×7628	43%	5.3	4.7	0.0172	0.0138
0.76	29.92	4×7628	45%	5.2	4.7	0.0175	0.0139
0.80	31.50	4×7628	47%	5.1	4.7	0.0180	0.0142
0.90	35.43	1×2116+4×7628	47%	5.1	4.6	0.0182	0.0143
1.00	39.37	5×7628	47%	5.1	4.7	0.0180	0.0142
1.20	47.24	6×7628	47%	5.1	4.7	0.0180	0.0142
1.40	55.12	7×7628	47%	5.1	4.7	0.0180	0.0142
1.50	59.06	8×7628	46%	5.1	4.7	0.0177	0.0140
1.60	62.99	9×7628	44%	5.2	4.7	0.0173	0.0138

Based Material Line Up

2. PREPREG (B-STAGE)

Glass s Style	RC (%) Nominal	Thickness		DK		Df	
		mm	mil	1 MHz	1 GHz	1 MHz	1 GHz
7628	46	0.190	7.48	5.1	4.7	0.0177	0.0140
7628	48	0.200	7.87	5.1	4.6	0.0183	0.0144
7628	50	0.210	8.27	5.1	4.6	0.0189	0.0147
2116	52	0.110	4.33	5.1	4.6	0.0195	0.0149
2116	55	0.120	4.72	5.0	4.5	0.0204	0.0152
2116	58	0.130	5.12	5.0	4.5	0.0213	0.0155

3. REMARK

1) Test by IPC TM-650 2.5.5.9 parallel plate method.
2) The data above show actual values and are not guaranteed, for your reference only.
3) Last update: June, 2020