

Dielectric Constant (DK) / Dissipation Factor (DF) Table

Core Data

Construction	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
1x106	69.0%	0.0020	0.051	3.58 0.0151	3.54 0.0171	3.52 0.0197	3.49 0.0206	3.46 0.0216	3.46 0.0243
1x106	73.0%	0.0025	0.064	3.51 0.0156	3.47 0.0177	3.45 0.0204	3.42 0.0214	3.39 0.0225	3.39 0.0254
1x1080	61.0%	0.0030	0.076	3.73 0.0141	3.69 0.0159	3.68 0.0182	3.65 0.0189	3.62 0.0199	3.62 0.0223
2x106	66.0%	0.0035	0.089	3.64 0.0147	3.60 0.0166	3.58 0.0191	3.55 0.0200	3.52 0.0210	3.52 0.0236
2x106	69.0%	0.0042	0.107	3.58 0.0151	3.54 0.0171	3.52 0.0197	3.49 0.0206	3.46 0.0216	3.46 0.0243
106/1080	61.0%	0.0045	0.114	3.73 0.0141	3.69 0.0159	3.68 0.0182	3.65 0.0189	3.62 0.0199	3.62 0.0223
106/1080	64.0%	0.0050	0.127	3.67 0.0145	3.64 0.0163	3.62 0.0187	3.59 0.0195	3.56 0.0205	3.56 0.0230
106/2113	53.0%	0.0053	0.135	3.90 0.0132	3.86 0.0147	3.85 0.0167	3.82 0.0173	3.80 0.0181	3.80 0.0202
106/2116	49.0%	0.0060	0.152	3.99 0.0127	3.96 0.0141	3.94 0.0159	3.92 0.0165	3.89 0.0172	3.89 0.0192
1080/2116	51.0%	0.0070	0.178	3.94 0.0129	3.91 0.0144	3.89 0.0163	3.87 0.0169	3.84 0.0177	3.84 0.0197
2x1080/106	63.0%	0.0080	0.203	3.69 0.0144	3.65 0.0162	3.64 0.0186	3.61 0.0193	3.58 0.0203	3.58 0.0228
2113/2116	47.0%	0.0080	0.203	4.03 0.0124	4.00 0.0138	3.99 0.0155	3.97 0.0161	3.94 0.0168	3.94 0.0187

Construction	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
2x2113/106	54.0%	0.0090	0.229	3.88 0.0133	3.84 0.0148	3.83 0.0169	3.80 0.0175	3.78 0.0183	3.78 0.0205
2x1080/2116	54.0%	0.0100	0.254	3.88 0.0133	3.84 0.0148	3.83 0.0169	3.80 0.0175	3.78 0.0183	3.78 0.0205
2x2116/2113	47.0%	0.0120	0.305	4.03 0.0124	4.00 0.0138	3.99 0.0155	3.97 0.0161	3.94 0.0168	3.94 0.0187
2x7628	39.0%	0.0140	0.356	4.23 0.0116	4.20 0.0124	4.19 0.0141	4.17 0.0145	4.11 0.0152	4.11 0.0169
2x7628/106	40.0%	0.0160	0.406	4.18 0.0117	4.15 0.0125	4.15 0.0143	4.12 0.0147	4.09 0.0154	4.09 0.0171
2x7628/2113	41.0%	0.0180	0.457	4.16 0.0118	4.13 0.0127	4.13 0.0145	4.10 0.0149	4.07 0.0156	4.07 0.0173
2x2113/2x7628	42.0%	0.0200	0.508	4.14 0.0119	4.11 0.0129	4.11 0.0147	4.08 0.0151	4.05 0.0158	4.05 0.0175
3x7628/2116	40.0%	0.0240	0.610	4.18 0.0117	4.15 0.0125	4.15 0.0143	4.12 0.0147	4.09 0.0154	4.09 0.0171
4x7628	39.0%	0.0280	0.711	4.23 0.0116	4.20 0.0124	4.19 0.0141	4.14 0.0145	4.11 0.0152	4.11 0.0169
6x7628	37.0%	0.0390	0.991	4.24 0.0114	4.21 0.0119	4.21 0.0137	4.18 0.0141	4.15 0.0148	4.15 0.0165
4x7628/2116	39.0%	0.3100	7.874	4.23 0.0116	4.20 0.0124	4.19 0.0141	4.14 0.0145	4.11 0.0152	4.11 0.0169

NOTE

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Dielectric Constant (DK) / Dissipation Factor (DF) Table

Prepreg Data

Glass Style	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
106	75.00%	0.0024	0.061	3.48 0.0158	3.43 0.018	3.41 0.0208	3.38 0.0218	3.35 0.0229	3.35 0.0259
1080	65.00%	0.0032	0.081	3.66 0.0146	3.62 0.0165	3.60 0.0189	3.57 0.0198	3.54 0.0207	3.54 0.0233
2113	57.00%	0.004	0.102	3.81 0.0136	3.78 0.0153	3.76 0.0174	3.74 0.0181	3.71 0.019	3.71 0.0212
2116	54.00%	0.005	0.127	3.88 0.0133	3.84 0.0148	3.83 0.0169	3.80 0.0175	3.78 0.0183	3.78 0.0205
7628	42.00%	0.0078	0.198	4.14 0.0119	4.11 0.0129	4.11 0.0149	4.08 0.0151	4.05 0.0158	4.05 0.0175

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