

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	70.0%	0.0020	0.051	3.59 0.0178	3.54 0.0203	3.51 0.0234	3.48 0.0240	3.40 0.0290	3.40 0.0290
1x1080	57.0%	0.0025	0.064	3.83 0.0158	3.79 0.0178	3.77 0.0205	3.74 0.0210	3.67 0.0250	3.67 0.0250
1x1080	63.0%	0.0030	0.076	3.71 0.0167	3.67 0.0189	3.65 0.0217	3.62 0.0230	3.54 0.0270	3.56 0.0270
1x2113	46.0%	0.0030	0.076	4.08 0.0141	4.04 0.0156	4.02 0.0177	3.99 0.0180	3.93 0.0210	3.93 0.0210
1x2113	51.0%	0.0035	0.089	3.96 0.0171	3.92 0.0193	3.90 0.0222	3.87 0.0230	3.81 0.0270	3.81 0.0270
2x106	65.0%	0.0035	0.089	3.68 0.0149	3.63 0.0166	3.61 0.0189	3.58 0.0200	3.50 0.0230	3.50 0.0230
1x2116	45.0%	0.0040	0.102	4.10 0.0139	4.06 0.0154	4.05 0.0175	4.02 0.0180	3.96 0.0210	3.96 0.0210
1x2116	49.0%	0.0043	0.109	4.01 0.0134	3.97 0.0149	3.95 0.0167	3.92 0.0170	3.86 0.0200	3.86 0.0200
106/1080	60.0%	0.0043	0.109	3.77 0.0163	3.73 0.0183	3.71 0.0210	3.68 0.0220	3.60 0.0260	3.60 0.0260
1x1652	42.0%	0.0050	0.127	4.17 0.0156	4.14 0.0176	4.12 0.0203	4.10 0.0210	4.04 0.0250	4.04 0.0250
106/2113	56.0%	0.0053	0.135	3.85 0.0152	3.81 0.0170	3.79 0.0194	3.76 0.0200	3.69 0.0240	3.69 0.0240
1080/2113	53.0%	0.0060	0.152	3.92 0.0133	3.88 0.0147	3.86 0.0165	3.83 0.0170	3.76 0.0200	3.76 0.0200

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
2113/2116	51.0%	0.0070	0.178	3.96 0.0150	3.92 0.0168	3.90 0.0191	3.87 0.0200	3.81 0.0230	3.81 0.0230
1x7628	41.0%	0.0070	0.178	4.20 0.0149	4.16 0.0166	4.15 0.0189	4.12 0.0200	4.07 0.0230	4.07 0.0230
2x2116	45.0%	0.0080	0.203	4.10 0.0139	4.06 0.0154	4.05 0.0175	4.02 0.0180	3.96 0.0210	3.96 0.0210
2x1080/2116	47.0%	0.0100	0.254	4.05 0.0142	4.01 0.0158	4.00 0.0179	3.97 0.0190	3.91 0.0220	3.91 0.0220
2x1652	42.0%	0.0100	0.254	4.17 0.0134	4.14 0.0149	4.12 0.0167	4.10 0.0170	4.04 0.0200	4.04 0.0200
2x1080/7628	47.0%	0.0120	0.305	4.05 0.0142	4.01 0.0158	4.00 0.0179	3.97 0.0190	3.91 0.0220	3.91 0.0220
2x7628	42.0%	0.0140	0.356	4.17 0.0134	4.14 0.0149	4.12 0.0167	4.10 0.0170	4.04 0.0200	4.04 0.0200
2x7628/2116	42.0%	0.0180	0.457	4.17 0.0134	4.14 0.0149	4.12 0.0167	4.10 0.0170	4.04 0.0200	4.04 0.0200
3x7628	40.0%	0.0210	0.533	4.22 0.0131	4.19 0.0145	4.17 0.0163	4.18 0.0170	4.11 0.0200	4.11 0.0200

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	75.0%	0.0023	0.058	3.50 0.0186	3.45 0.0212	3.46 0.0246	3.39 0.0260	3.30 0.0310	3.30 0.0310
1080	65.0%	0.0030	0.076	3.68 0.0171	3.63 0.0193	3.61 0.0222	3.58 0.0230	3.50 0.0275	3.50 0.0275
2113	57.0%	0.0039	0.099	3.83 0.0158	3.79 0.0178	3.77 0.0203	3.74 0.0210	3.67 0.0250	3.67 0.0250
2116	56.0%	0.0050	0.127	3.85 0.0156	3.81 0.0176	3.79 0.0205	3.76 0.0210	3.69 0.0250	3.69 0.0250
7628	44.0%	0.0074	0.188	4.12 0.0137	4.09 0.0153	4.07 0.0172	4.04 0.0180	3.98 0.0210	3.98 0.0210

NOTE

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