

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
1x1037	73.00%	0.0021	0.053	3.19 0.0024	3.19 0.0024	3.18 0.0026	3.18 0.0026	3.18 0.0026	3.18 0.0026
1x1067	70.00%	0.0025	0.064	3.26 0.0026	3.25 0.0026	3.25 0.0027	3.25 0.0027	3.25 0.0028	3.25 0.0028
1x1078	63.00%	0.0030	0.076	3.40 0.0030	3.40 0.0030	3.40 0.0031	3.40 0.0031	3.40 0.0032	3.40 0.0032
1x3313	54.00%	0.0040	0.102	3.62 0.0035	3.62 0.0035	3.62 0.0036	3.62 0.0036	3.62 0.0037	3.62 0.0037
2x1037	73.00%	0.0043	0.109	3.19 0.0024	3.19 0.0024	3.18 0.0025	3.18 0.0025	3.18 0.0026	3.18 0.0026
2x1078	63.00%	0.0060	0.152	3.40 0.0030	3.40 0.0030	3.40 0.0031	3.40 0.0031	3.40 0.0032	3.40 0.0032
2x1078	67.00%	0.0070	0.178	3.19 0.0024	3.19 0.0024	3.18 0.0025	3.18 0.0025	3.18 0.0026	3.18 0.0026
2x3313	54.00%	0.0080	0.203	3.62 0.0035	3.62 0.0035	3.62 0.0036	3.62 0.0036	3.62 0.0037	3.62 0.0037
2x3313	62.00%	0.0100	0.254	3.42 0.0031	3.42 0.0031	3.42 0.0032	3.42 0.0032	3.42 0.0033	3.42 0.0033
3x3313	54.00%	0.0120	0.305	3.62 0.0035	3.62 0.0035	3.62 0.0035	3.62 0.0035	3.62 0.0035	3.62 0.0035

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
1027	66.00%	0.0014	0.036	3.47 0.0032	3.47 0.0032	3.47 0.0033	3.47 0.0033	3.47 0.0034	3.47 0.0034
1027	69.00%	0.0016	0.041	3.39 0.0029	3.39 0.003	3.39 0.0031	3.39 0.0031	3.39 0.0032	3.39 0.0032
1037	65.00%	0.0016	0.041	3.36 0.0029	3.36 0.0029	3.36 0.003	3.36 0.003	3.36 0.0031	3.36 0.0031
1037	67.00%	0.0017	0.043	3.31 0.0027	3.31 0.0028	3.31 0.0029	3.31 0.0029	3.31 0.003	3.31 0.003
1037	71.00%	0.002	0.051	3.23 0.0025	3.23 0.0026	3.23 0.0026	3.23 0.0027	3.23 0.0027	3.23 0.0027
1037	73.00%	0.0022	0.056	3.18 0.0023	3.18 0.0024	3.18 0.0025	3.18 0.0025	3.18 0.0026	3.18 0.0026
1067	67.00%	0.0023	0.058	3.27 0.0027	3.27 0.0027	3.27 0.0028	3.27 0.0028	3.27 0.0029	3.27 0.0029
1067	70.00%	0.0025	0.064	3.25 0.0024	3.25 0.0025	3.25 0.0025	3.25 0.0026	3.25 0.0026	3.25 0.0026
1078	60.00%	0.0028	0.071	3.47 0.0031	3.47 0.0033	3.47 0.0034	3.47 0.0034	3.47 0.0034	3.47 0.0034
1067	73.00%	0.0029	0.074	3.18 0.0024	3.18 0.0025	3.18 0.0025	3.18 0.0026	3.18 0.0026	3.18 0.0026
1078	63.00%	0.0031	0.079	3.38 0.0027	3.38 0.0027	3.38 0.0028	3.38 0.0028	3.38 0.0029	3.38 0.0029
1078	67.00%	0.0035	0.089	3.31 0.003	3.31 0.003	3.31 0.0031	3.31 0.0031	3.31 0.0032	3.31 0.0032

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
1086	68.00%	0.004	0.102	3.29 0.0027	3.29 0.0027	3.29 0.0028	3.29 0.0028	3.29 0.0029	3.29 0.0029
3313	62.00%	0.0051	0.13	3.42 0.003	3.42 0.003	3.42 0.0031	3.42 0.0031	3.42 0.0032	3.42 0.0032

NOTE

Visit our site <http://www.isola-group.com> for more details. Revision B: Corrected prepreg header and 6 mil DF values