

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

Core Data

Construction	Glass Type	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)				
					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
1x1037	Spread	73.0%	0.0020	0.051	3.10 0.0025	3.10 0.0026	3.10 0.0026	3.10 0.0026	3.10 0.0026
1x1067	Spread	70.0%	0.0025	0.064	3.25 0.0027	3.25 0.0028	3.25 0.0028	3.25 0.0028	3.24 0.0028
1x1078	Spread	63.0%	0.0030	0.076	3.40 0.0031	3.40 0.0032	3.40 0.0032	3.40 0.0032	3.40 0.0032
1x1078	Spread	67.0%	0.0035	0.089	3.30 0.0029	3.30 0.0030	3.30 0.0030	3.30 0.0030	3.30 0.0030
1x3313		54.0%	0.0040	0.102	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037
2x1037	Spread	73.0%	0.0043	0.109	3.10 0.0025	3.10 0.0026	3.10 0.0026	3.10 0.0026	3.10 0.0026
2x1067	Spread	67.0%	0.0045	0.114	3.31 0.0029	3.31 0.0030	3.31 0.0030	3.31 0.0030	3.31 0.0030
1x3313		58.0%	0.0045	0.114	3.50 0.0034	3.50 0.0035	3.50 0.0035	3.50 0.0035	3.50 0.0035
2x1067	Spread	70.0%	0.0050	0.127	3.54 0.0027	3.54 0.0028	3.54 0.0028	3.54 0.0028	3.54 0.0028
1x3313		62.0%	0.0050	0.127	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
1x2116		54.0%	0.0050	0.127	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037
2x1078	Spread	60.0%	0.0055	0.140	3.48 0.0035	3.48 0.0035	3.48 0.0035	3.48 0.0035	3.48 0.0035

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					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
1x2116		57.0%	0.0055	0.140	3.54 0.0033	3.54 0.0034	3.54 0.0034	3.54 0.0034	3.54 0.0034
1x2116		60.0%	0.0060	0.152	3.47 0.0033	3.47 0.0034	3.47 0.0034	3.47 0.0034	3.47 0.0034
2x1078	Spread	63.0%	0.0062	0.157	3.40 0.0031	3.40 0.0032	3.40 0.0032	3.40 0.0032	3.40 0.0032
2x1078	Spread	67.0%	0.0070	0.178	3.30 0.0029	3.30 0.0030	3.30 0.0030	3.30 0.0030	3.30 0.0030
2x1078	Spread	69.3%	0.0076	0.193	3.27 0.0027	3.27 0.0028	3.27 0.0028	3.27 0.0028	3.27 0.0028
2x3313		54.0%	0.0080	0.203	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037
2x3313		58.0%	0.0090	0.229	3.50 0.0034	3.50 0.0035	3.50 0.0035	3.50 0.0035	3.50 0.0035
2x3313		62.0%	0.0100	0.254	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
2x2116		54.0%	0.0100	0.254	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037
3x3313		54.0%	0.0120	0.305	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037
2x3313/1078	Spread	61.5%	0.0130	0.330	3.42 0.0031	3.42 0.0032	3.42 0.0032	3.42 0.0032	3.42 0.0032
2x3313/1078	Spread	62.5%	0.0132	0.335	3.41 0.0031	3.41 0.0032	3.41 0.0032	3.41 0.0032	3.41 0.0032
2x3313/1078	Spread	64.5%	0.0140	0.356	3.37 0.0031	3.37 0.0031	3.37 0.0031	3.36 0.0031	3.36 0.0031
3x3313		64.5%	0.0150	0.381	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
3x2116		54.0%	0.0150	0.381	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037
2x1078/2x3313		62.4%	0.0160	0.406	3.42 0.0031	3.42 0.0032	3.42 0.0032	3.42 0.0032	3.42 0.0032

Construction	Glass Type	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
2x1078/2x3313		63.6%	0.0166	0.422	3.39 0.0032	3.39 0.0032	3.39 0.0032	3.39 0.0032	3.39 0.0032
4x3313		58.0%	0.0180	0.457	3.50 0.0034	3.50 0.0035	3.50 0.0035	3.50 0.0035	3.50 0.0035
4x3313		62.0%	0.0200	0.508	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
4x2116		54.0%	0.0200	0.508	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037	3.61 0.0037

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

Prepreg Data

Glass Style	Gls Type	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
1037	Spread	73.00%	0.0022	0.056	3.18 0.0025	3.18 0.0026	3.18 0.0026	3.18 0.0026	3.18 0.0026
106		73.00%	0.0023	0.058	3.18 0.0025	3.18 0.0026	3.18 0.0026	3.18 0.0026	3.18 0.0026
1067	Spread	70.00%	0.0025	0.064	3.25 0.0027	3.25 0.0028	3.25 0.0028	3.25 0.0028	3.24 0.0028
1078	Spread	60.00%	0.0028	0.071	3.47 0.0033	3.47 0.0034	3.47 0.0034	3.47 0.0034	3.47 0.0034
1067	Spread	73.00%	0.0029	0.074	3.18 0.0025	3.18 0.0026	3.18 0.0026	3.18 0.0026	3.18 0.0026
1078	Spread	63.00%	0.0031	0.079	3.40 0.0031	3.40 0.0032	3.40 0.0032	3.40 0.0032	3.40 0.0032
1078	Spread	67.00%	0.0035	0.089	3.31 0.0029	3.31 0.003	3.31 0.003	3.31 0.003	3.31 0.003
1080		68.00%	0.0036	0.091	3.29 0.0028	3.29 0.0029	3.29 0.0029	3.29 0.0029	3.29 0.0029
1080		71.00%	0.004	0.102	3.22 0.0027	3.22 0.0027	3.22 0.0027	3.22 0.0027	3.22 0.0027
1078	Spread	71.00%	0.0041	0.104	3.22 0.0027	3.22 0.0027	3.22 0.0027	3.22 0.0027	3.22 0.0027
3313		58.00%	0.0045	0.114	3.50 0.0034	3.50 0.0035	3.50 0.0035	3.50 0.0035	3.50 0.0035
3313		62.00%	0.0051	0.13	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033

Glass Style	Glass Type	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
3313		65.00%	0.0056	0.142	3.35 0.003	3.35 0.0031	3.35 0.0031	3.35 0.0031	3.35 0.0031
2116		57.00%	0.0056	0.142	3.54 0.0035	3.54 0.0035	3.54 0.0035	3.54 0.0035	3.54 0.0035
2116		60.00%	0.0061	0.155	3.47 0.0033	3.47 0.0034	3.47 0.0034	3.47 0.0034	3.47 0.0034

NOTE

Revisions:

A-Original-4/17

B-Adjusted 16.8 mil thickness to 16.6 mil thickness-12/19