

## Dielectric Constant(Dk) / Dissipation factor (Df) Table

### Core Data

Construction	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
1x1035	67.0%	Standard	0.0020	0.051	3.31 0.0029	3.31 0.0030	3.31 0.0030	3.31 0.0030	3.31 0.0030
1x1035	70.5%	Alternate	0.0025	0.064	3.24 0.0027	3.24 0.0028	3.24 0.0028	3.23 0.0028	3.23 0.0028
1x1078	63.0%	Standard	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	67.5%	Alternate	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	54.5%	Standard	0.0040	0.102	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037	3.60 0.0037
2x1067	64.0%	Alternate	0.0040	0.102	3.38 0.0031	3.38 0.0031	3.38 0.0031	3.38 0.0031	3.38 0.0031
1x3313	58.0%	Standard	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	67.0%	Alternate	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	62.0%	Standard	0.0050	0.127	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
2x1078	57.0%	Alternate	0.0050	0.127	3.54 0.0035	3.54 0.0035	3.54 0.0035	3.54 0.0035	3.54 0.0035
2x1078	60.0%	Alternate	0.0055	0.140	3.48 0.0035	3.48 0.0035	3.48 0.0035	3.48 0.0035	3.48 0.0035
1x2116	60.0%	Standard	0.0060	0.152	3.47 0.0035	3.47 0.0035	3.47 0.0035	3.47 0.0035	3.47 0.0035
2x1078	63.0%	Alternate	0.0060	0.157	3.40 0.0031	3.40 0.0032	3.40 0.0032	3.40 0.0032	3.40 0.0032
2x1078	67.5%	Standard	0.0070	0.178	3.30 0.0029	3.30 0.0030	3.30 0.0030	3.30 0.0030	3.30 0.0030
2x3313	54.5%	Alternate	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	62.0%	Standard	0.0100	0.254	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
3x1078	66.0%	Alternate	0.0100	0.254	3.61 0.0030	3.61 0.0032	3.61 0.0032	3.61 0.0032	3.61 0.0032
3x3313	54.5%	Standard	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	64.5%	Standard	0.0140	0.356	3.37 0.0031	3.37 0.0031	3.37 0.0031	3.36 0.0031	3.36 0.0031
2x1078/2x3313	62.4%	Standard	0.0160	0.406	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
4x3313	58.5%	Standard	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%	Standard	0.0200	0.508	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033

## Prepreg Dielectric Constant(Dk) / Dissipation factor (Df) Table

### Prepreg Data

Glass Style	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
					2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz
1067	70.00%	Standard	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	60.00%	Standard	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	73.00%	Standard	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	63.00%	Alternate	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	67.00%	Standard	0.0035	0.089	3.31 0.0029	3.31 0.0030	3.31 0.0030	3.31 0.0030	3.31 0.0030
1080	68.00%	Alternate	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%	Standard	0.0040	0.102	3.22 0.0027	3.22 0.0027	3.22 0.0027	3.22 0.0027	3.22 0.0027
1078	71.00%	Standard	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	62.00%	Standard	0.0051	0.130	3.42 0.0032	3.42 0.0033	3.42 0.0033	3.42 0.0033	3.42 0.0033
3313	65.00%	Standard	0.0056	0.142	3.35 0.0030	3.35 0.0031	3.35 0.0031	3.35 0.0031	3.35 0.0031
2116	60.00%	Alternate	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 Release - 4/17

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

C-Rationalized construction set - 5/21

D-Removed 106 prepreg - 10/23

All TerraGreen glass is Spread Weave in both directions

Standard-Commonly available

Alternate-Available, but not stocked

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