

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	73.0%	0.0020	0.051	3.30 0.00470	3.29 0.00510	3.29 0.00570	3.28 0.00580	3.24 0.00660	3.24 0.00720
1x1080	60.0%	0.0027	0.069	3.52 0.00500	3.51 0.00540	3.51 0.00580	3.51 0.00590	3.47 0.00660	3.47 0.00710
1x1080	63.0%	0.0030	0.076	3.45 0.00490	3.45 0.00530	3.44 0.00580	3.44 0.00590	3.40 0.00660	3.40 0.00710
2x106	68.0%	0.0035	0.089	3.39 0.00480	3.38 0.00520	3.38 0.00570	3.37 0.00590	3.33 0.00660	3.33 0.00710
1x2113	53.0%	0.0035	0.089	3.74 0.00530	3.74 0.00550	3.73 0.00590	3.73 0.00600	3.70 0.00660	3.70 0.00700
2x106	68.0%	0.0040	0.102	3.30 0.00470	3.29 0.00510	3.29 0.00570	3.28 0.00580	3.24 0.00660	3.24 0.00720
1x3313	56.0%	0.0040	0.102	3.64 0.00510	3.64 0.00550	3.63 0.00590	3.63 0.00600	3.59 0.00660	3.59 0.00710
1x3070	50.0%	0.0040	0.102	3.80 0.00530	3.79 0.00560	3.79 0.00590	3.78 0.00610	3.75 0.00660	3.75 0.00700
106/1080	62.0%	0.0043	0.109	3.48 0.00500	3.47 0.00530	3.47 0.00580	3.46 0.00590	3.42 0.00660	3.42 0.00720
106/1080	63.0%	0.0045	0.114	3.45 0.00490	3.45 0.00530	3.44 0.00580	3.44 0.00590	3.40 0.00660	3.40 0.00720
2x1080	58.0%	0.0050	0.127	3.59 0.00510	3.59 0.00540	3.58 0.00580	3.58 0.00600	3.54 0.00660	3.54 0.00710
1x1652	43.0%	0.0050	0.127	3.96 0.00540	3.95 0.00570	3.93 0.00600	3.94 0.00610	3.92 0.00660	3.92 0.00700

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				100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
106/2113	56.0%	0.0050	0.127	3.64 0.00510	3.64 0.00550	3.63 0.00590	3.63 0.00600	3.59 0.00660	3.59 0.00710
1x1652	47.0%	0.0055	0.140	3.85 0.00540	3.84 0.00560	3.84 0.00600	3.84 0.00610	3.81 0.00660	3.81 0.00700
2x1080	66.0%	0.0060	0.152	3.67 0.00470	3.66 0.00510	3.66 0.00570	3.65 0.00580	3.62 0.00660	3.62 0.00720
1080/2113	55.0%	0.0060	0.152	3.67 0.00520	3.66 0.00550	3.66 0.00590	3.65 0.00600	3.62 0.00660	3.62 0.00710
1080/2113	55.0%	0.0065	0.165	3.59 0.00510	3.59 0.00540	3.58 0.00580	3.58 0.00600	3.54 0.00660	3.54 0.00710
1080/2116	53.0%	0.0070	0.178	3.57 0.00510	3.56 0.00540	3.56 0.00580	3.55 0.00600	3.52 0.00660	3.52 0.00710
2x2113	53.0%	0.0070	0.178	3.72 0.00520	3.72 0.00550	3.71 0.00590	3.70 0.00600	3.67 0.00660	3.67 0.00710
2x3070	50.0%	0.0080	0.203	3.80 0.00530	3.79 0.00560	3.79 0.00590	3.78 0.00610	3.75 0.00660	3.75 0.00700
2x1652	43.0%	0.0100	0.254	3.96 0.00540	3.95 0.00570	3.93 0.00600	3.94 0.00610	3.92 0.00660	3.92 0.00700
2x2116	54.0%	0.0100	0.254	3.67 0.00520	3.66 0.00550	3.66 0.00590	3.65 0.00600	3.62 0.00660	3.62 0.00710
3x1080	66.0%	0.0100	0.254	3.39 0.00480	3.38 0.00520	3.38 0.00570	3.37 0.00590	3.33 0.00660	3.33 0.00710
2x2113/1652	49.0%	0.0120	0.305	3.82 0.00530	3.82 0.00560	3.81 0.00600	3.81 0.00610	3.78 0.00660	3.78 0.00700
2x2116/1652	47.0%	0.0140	0.356	3.85 0.00540	3.84 0.00560	3.84 0.00600	3.84 0.00610	3.81 0.00660	3.81 0.00700
3x1652	46.0%	0.0160	0.406	3.88 0.00540	3.87 0.00560	3.87 0.00600	3.86 0.00610	3.83 0.00660	3.83 0.00700
2x3070/2x1652	46.0%	0.0180	0.457	3.88 0.00540	3.87 0.00560	3.87 0.00600	3.86 0.00610	3.83 0.00660	3.83 0.00700
2x2116/2x1652	50.0%	0.0210	0.533	3.77 0.00530	3.76 0.00560	3.76 0.00590	3.76 0.00610	3.72 0.00660	3.72 0.00700

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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
2x2116/3x1652	48.0%	0.0240	0.610	3.88 0.00540	3.87 0.00560	3.87 0.00600	3.86 0.00610	3.83 0.00660	3.83 0.00700
2x3070/4x1652	45.0%	0.0280	0.711	3.90 0.00540	3.90 0.00560	3.90 0.00600	3.89 0.00610	3.86 0.00660	3.86 0.00700

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	76.0%	0.0024	0.061	3.18 0.00460	3.17 0.00500	3.17 0.00560	3.16 0.00580	3.12 0.00660	3.12 0.00730
1080	66.0%	0.0031	0.079	3.39 0.00480	3.38 0.00520	3.38 0.00570	3.37 0.00590	3.33 0.00660	3.33 0.00720
3313	54.0%	0.0036	0.091	3.67 0.00520	3.66 0.00550	3.66 0.00590	3.65 0.00600	3.62 0.00660	3.62 0.00710
1080	69.0%	0.0036	0.091	3.32 0.00480	3.31 0.00520	3.31 0.00570	3.30 0.00590	3.26 0.00660	3.26 0.00720
2113	58.0%	0.0042	0.107	3.57 0.00510	3.56 0.00540	3.56 0.00580	3.55 0.00600	3.52 0.00660	3.52 0.00710
3070	55.0%	0.0046	0.117	3.64 0.00510	3.64 0.00550	3.63 0.00590	3.63 0.00600	3.59 0.00660	3.59 0.00710
2116	55.0%	0.0052	0.132	3.64 0.00510	3.64 0.00550	3.63 0.00590	3.63 0.00600	3.59 0.00660	3.59 0.00710
2116	58.0%	0.0052	0.132	3.57 0.00510	3.56 0.00540	3.56 0.00580	3.55 0.00600	3.52 0.00660	3.52 0.00710
1652	51.0%	0.0061	0.155	3.74 0.00530	3.74 0.00550	3.73 0.00590	3.73 0.00600	3.70 0.00660	3.70 0.00700

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