

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

Core Data

Constructions	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)			
				100 MHz	1 GHz	2 GHz	10 GHz
1x106	72%	0.002	0.050	4.30 0.1800	4.10 0.1800	3.95 0.0210	3.90 0.0240
1x1080	64%	0.003	0.075	4.65 0.0180	4.26 0.0180	4.15 0.0210	4.10 0.0230
1x2116	47%	0.004	0.100	4.60 0.0160	4.52 0.0160	4.35 0.0170	4.25 0.0170
1x2116	55%	0.005	0.125	4.75 0.0160	4.37 0.0160	4.25 0.0170	4.20 0.0170
1x1652	52%	0.006	0.150	4.75 0.0170	4.40 0.0170	4.25 0.0180	4.20 0.0190
1x7628	43%	0.007	0.175	4.90 0.0160	4.58 0.0160	4.45 0.0170	4.35 0.0170
1x7628	48%	0.008	0.200	4.85 0.0160	4.50 0.0160	4.40 0.0170	4.35 0.0180
2x2116	55%	0.010	0.250	4.75 0.0160	4.37 0.0160	4.25 0.0170	4.20 0.0170
2x1652	52%	0.012	0.300	4.75 0.0170	4.40 0.0170	4.25 0.0180	4.20 0.0190
2x7628	44%	0.014	0.360	4.90 0.0160	4.57 0.0160	4.45 0.0170	4.40 0.0170
2x7628	48%	0.016	0.410	4.85 0.0160	4.50 0.0160	4.40 0.0170	4.35 0.0180
3x1652	52%	0.018	0.460	4.75 0.0170	4.40 0.0170	4.25 0.0180	4.20 0.0190
3x7628	42%	0.020	0.510	4.91 0.0160	4.60 0.0160	4.45 0.0170	4.35 0.0170
3x7628	44%	0.021	0.540	4.90 0.0160	4.57 0.0160	4.45 0.0170	4.40 0.0170
3x7628	48%	0.024	0.610	4.85 0.0160	4.50 0.0160	4.40 0.0170	4.35 0.0180
4x7628	44%	0.028	0.710	4.90 0.0160	4.57 0.0160	4.45 0.0170	4.40 0.0170
4x7628	46%	0.030	0.760	4.87 0.0160	4.53 0.0160	4.42 0.0170	4.37 0.0180
5x7628	48%	0.039	1.000	4.85 0.0160	4.50 0.0160	4.40 0.0170	4.35 0.0180



IS420

Lead Free Epoxy Laminate and Prepreg

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6x7628	48%	0.047	1.200	4.85 0.0160	4.50 0.0160	4.40 0.0170	4.35 0.0180
8x7628	45%	0.058	1.460	4.89 0.0160	4.55 0.0160	4.46 0.0170	4.36 0.0170

Prepreg 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	1 GHz	2 GHz	10 GHz
106	72%	0.0020	0.051	4.30 0.0180	4.10 0.0190	3.95 0.0200	3.90 0.0240
106	76%	0.0024	0.060	4.28 0.0190	4.02 0.0200	3.87 0.0210	3.82 0.0250
1080	64%	0.0029	0.073	4.50 0.0170	4.30 0.0180	4.05 0.0190	4.00 0.0210
1080	70%	0.0035	0.090	4.38 0.0180	4.14 0.0190	4.00 0.0200	3.94 0.0240
2113	57%	0.0039	0.098	4.64 0.0170	4.40 0.0180	4.26 0.0180	4.20 0.0200
2116	52%	0.0046	0.116	4.74 0.0170	4.50 0.0170	4.36 0.0180	4.30 0.0190
2116	57%	0.0052	0.132	4.64 0.0170	4.40 0.0180	4.26 0.0180	4.20 0.0200
7628	45%	0.0074	0.187	4.85 0.0160	4.64 0.0160	4.50 0.0170	4.34 0.0180
7628	50%	0.0083	0.210	4.75 0.0170	4.54 0.0170	4.40 0.0170	4.24 0.0180

NOTE

Revisions:

A - Original 10/20

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