

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

Core Data

Constructions	Resin Content %	Standard/Alternate	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
					100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
1x1080	62.0%	Standard	0.0030	0.076	4.40 0.0110	4.30 0.0110	4.20 0.0120	4.20 0.0140	4.20 0.0150	4.20 0.0160
2x106	70.0%	Alternate	0.0040	0.102	4.40 0.0110	4.20 0.0120	4.10 0.0130	4.10 0.0140	4.10 0.0150	4.10 0.0160
1x2116	55.0%	Standard	0.0050	0.130	4.60 0.0110	4.50 0.0120	4.40 0.0130	4.40 0.0140	4.40 0.0150	4.40 0.0160
1x7628	47.0%	Standard	0.0080	0.200	4.60 0.0110	4.60 0.0120	4.60 0.0130	4.60 0.0140	4.60 0.0150	4.60 0.0160
2x2116	55.0%	Standard	0.0100	0.250	4.60 0.0110	4.50 0.0120	4.40 0.0130	4.40 0.0140	4.40 0.0150	4.40 0.0160
3x7628	44.0%	Standard	0.0220	0.560	4.60 0.0110	4.70 0.0120	4.60 0.0130	4.60 0.0140	4.60 0.0150	4.60 0.0160
5x7628	47.0%	Standard	0.0390	0.990	4.60 0.0110	4.60 0.0120	4.60 0.0130	4.60 0.0140	4.60 0.0150	4.60 0.0160
6x7628	47.0%	Standard	0.0470	1.190	4.60 0.0110	4.60 0.0120	4.60 0.0130	4.60 0.0140	4.60 0.0150	4.60 0.0160
8x7628	47.0%	Standard	0.0630	1.600	4.60 0.0110	4.60 0.0120	4.60 0.0130	4.60 0.0140	4.60 0.0150	4.60 0.0160

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

Prepreg Data

Glass Style	Resin Content %	Standard/Alternate	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%	Standard	0.0024	0.060	4.19	4.19	4.00	4.00	4.00	4.00
1035	75.0%	Standard	0.0028	0.070	4.19	4.19	4.00	4.00	4.00	4.00
1080	72.0%	Standard	0.0039	0.100	4.29	4.29	4.20	4.19	4.19	4.19
2116	55.0%	Standard	0.0049	0.120	4.69	4.50	4.40	4.40	4.40	4.40
7628	47.0%	Standard	0.0079	0.200	4.85	4.60	4.60	4.60	4.60	4.60
7628	52.0%	Standard	0.0088	0.220	4.60	4.50	0.0120	0.0150	0.0150	0.0160
					0.0110	0.0110	0.0130	0.0150	0.0160	0.0160

NOTE

Revisions:

A-Original-1/2021

B-Added 2x106 4 mil & 1x2116 4.5 mil cores and 106 80% RC prepreg - 08/21

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