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

Core Data

Construction	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
				2 GHz	5 GHz	10 GHz	15 GHz	20 GHz
1x1067	66.00%	0.0020	0.051	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059
1x1067	72.00%	0.0025	0.064	3.45 0.0058	3.45 0.0058	3.45 0.0059	3.45 0.0059	3.45 0.0059
1x1080	66.00%	0.0030	0.076	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059
1x1078	69.50%	0.0035	0.089	3.50 0.0058	3.50 0.0058	3.50 0.0059	3.50 0.0059	3.50 0.0059
1x3313	52.00%	0.0035	0.089	3.89 0.0060	3.89 0.0060	3.89 0.0061	3.89 0.0061	3.89 0.0061
2x1067	66.00%	0.0040	0.102	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059
1x3313	57.00%	0.0040	0.102	3.77 0.0060	3.77 0.0060	3.77 0.0060	3.77 0.0060	3.77 0.0060
1x2116	56.50%	0.0050	0.127	3.79 0.0060	3.79 0.0060	3.79 0.0060	3.78 0.0060	3.78 0.0060
2x1067	72.00%	0.0050	0.127	3.45 0.0058	3.45 0.0058	3.45 0.0059	3.45 0.0059	3.45 0.0059
2x1080	66.00%	0.0060	0.152	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059
2x3313	57.00%	0.0080	0.203	3.77 0.0060	3.77 0.0060	3.77 0.0060	3.77 0.0060	3.77 0.0060
2x2116	56.50%	0.0100	0.254	3.79 0.0060	3.79 0.0060	3.79 0.0060	3.78 0.0060	3.78 0.0060
3x3313	57.00%	0.0120	0.305	3.77 0.0060	3.77 0.0060	3.77 0.0060	3.77 0.0060	3.77 0.0060
3x2116	56.50%	0.0150	0.381	3.79 0.0060	3.79 0.0060	3.79 0.0060	3.78 0.0060	3.78 0.0060
4x2116	56.50%	0.0200	0.508	3.79 0.0060	3.79 0.0060	3.79 0.0060	3.78 0.0060	3.78 0.0060
1x3313/4x2116	56.60%	0.0240	0.610	3.79 0.0060	3.79 0.0060	3.79 0.0060	3.78 0.0060	3.78 0.0060
2x2116/3x1652	53.90%	0.0280	0.711	3.83 0.0060	3.83 0.0060	3.83 0.0060	3.83 0.0060	3.83 0.0060

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

Prepreg Data

Glass Style	Resin content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
				2 GHz	5 GHz	10 GHz	15 GHz	20 GHz
1067	66.00%	0.0020	0.051	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059
1067	70.00%	0.0023	0.058	3.49 0.0058	3.49 0.0058	3.49 0.0059	3.49 0.0059	3.49 0.0059
1035	71.50%	0.0024	0.061	3.46 0.0058	3.46 0.0058	3.46 0.0059	3.46 0.0059	3.46 0.0059
1067	74.00%	0.0027	0.069	3.41 0.0058	3.41 0.0058	3.41 0.0059	3.41 0.0059	3.41 0.0059
1067	76.50%	0.0031	0.079	3.36 0.0058	3.36 0.0058	3.36 0.0058	3.36 0.0058	3.36 0.0058
1080	66.00%	0.0031	0.079	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059	3.57 0.0059
1086	64.00%	0.0033	0.084	3.62 0.0059	3.62 0.0059	3.62 0.0060	3.62 0.0060	3.61 0.0060
1080	69.00%	0.0034	0.086	3.51 0.0059	3.51 0.0059	3.51 0.0059	3.51 0.0059	3.51 0.0059
1078	69.50%	0.0036	0.091	3.50 0.0058	3.50 0.0058	3.50 0.0059	3.50 0.0059	3.50 0.0059
1086	70.00%	0.0040	0.102	3.49 0.0058	3.49 0.0058	3.49 0.0059	3.49 0.0059	3.49 0.0059
3313	57.00%	0.0040	0.102	3.78 0.0060	3.78 0.0060	3.78 0.0060	3.77 0.0060	3.77 0.0060
1078	73.50%	0.0042	0.107	3.42 0.0058	3.42 0.0058	3.42 0.0059	3.42 0.0059	3.42 0.0059
3313	59.00%	0.0043	0.109	3.73 0.0060	3.73 0.0060	3.73 0.0060	3.73 0.0060	3.73 0.0060
2116	56.50%	0.0051	0.130	3.79 0.0060	3.79 0.0060	3.79 0.0060	3.78 0.0060	3.78 0.0060
2116	59.00%	0.0055	0.140	3.73 0.0060	3.73 0.0060	3.73 0.0060	3.73 0.0060	3.73 0.0060

I-Speed®

Low Loss, Epoxy Laminate and Prepreg

Revision No: F | September 18, 2026

NOTE

Revisions:
A-Original-4/17
B-Added Standard & Alternate construction-8/18
C- Corrected 3.5 core 2x1078 to 1x1078
D-Removed Weave Type 9/20
E-SKU reduction multiple cores and prepregs
F-Corrected construction 0.028 core

All I-Speed glass is Spread Weave in both directions

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