TerraGreen® 400G2

Halogen-free, Extremely Low Loss MaterialSubject to L2 Glass Availability

Revision No: B | July 24, 2023

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

Core Data

Construction	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
					10 GHz	15 Ghz	20 Ghz	30 Ghz	30 Ghz D
1x1035	67.0%	Standard	0.0020	0.051	3.10 0.0015	3.09 0.0015	3.08 0.0015	3.07 0.0015	2.87 0.0015
1x1035	72.5%	Standard	0.0025	0.064	3.05 0.0014	3.04 0.0014	3.03 0.0014	3.02 0.0014	2.82 0.0014
1x1078	65.5%	Standard	0.0030	0.076	3.12 0.0015	3.11 0.0015	3.10 0.0015	3.09 0.0015	2.89 0.0015
1x1078	69.5%	Standard	0.0035	0.089	3.08 0.0014	3.07 0.0014	3.06 0.0014	3.05 0.0014	2.85 0.0014
2x1035	67.0%	Standard	0.0040	0.102	3.10 0.0015	3.09 0.0015	3.08 0.0015	3.07 0.0015	2.87 0.0015
1x1078	73.0%	Standard	0.0040	0.102	3.05 0.0014	3.04 0.0014	3.03 0.0014	3.02 0.0014	2.82 0.0014
2x1035	70.0%	Standard	0.0045	0.114	3.08 0.0014	3.07 0.0014	3.06 0.0014	3.05 0.0014	2.85 0.0014
2x1035	72.5%	Standard	0.0050	0.127	3.05 0.0014	3.04 0.0014	3.03 0.0014	3.02 0.0014	2.82 0.0014
2x1078	65.5%	Standard	0.0060	0.152	3.12 0.0015	3.11 0.0015	3.10 0.0015	3.09 0.0015	2.89 0.0015
2x1078	69.5%	Standard	0.0070	0.178	3.08 0.0014	3.07 0.0014	3.06 0.0014	3.05 0.0014	2.85 0.0014
2x1078	73.0%	Standard	0.0080	0.203	3.05 0.0014	3.04 0.0014	3.03 0.0014	3.02 0.0014	2.82 0.0014
3x1078	68.0%	Standard	0.0100	0.254	3.09 0.0015	3.08 0.0015	3.07 0.0015	3.06 0.0015	2.86 0.0015

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

Prepreg Data

Glass	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)			
					10 GHz	15 GHz	20 GHz	30 GHz
1035	67.0%	Standard	0.0020	0.051	3.10 0.0015	3.10 0.0015	3.10 0.0015	3.10 0.0015
1035	72.5%	Standard	0.0025	0.064	3.05 0.0014	3.05 0.0014	3.05 0.0014	3.05 0.0014
1035	76.5%	Standard	0.0030	0.076	3.02 0.0014	3.02 0.0014	3.02 0.0014	3.02 0.0014
1078	65.5%	Standard	0.0030	0.076	3.12 0.0015	3.12 0.0015	3.12 0.0015	3.12 0.0015
1078	69.5%	Standard	0.0035	0.089	3.08 0.0014	3.08 0.0014	3.08 0.0014	3.08 0.0014
1078	73.0%	Standard	0.0040	0.102	3.05 0.0014	3.05 0.0014	3.05 0.0014	3.05 0.0014
1078	76.0%	Standard	0.0045	0.114	3.02 0.0014	3.02 0.0014	3.02 0.0014	3.02 0.0014

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NOTE

Revisions:
A-Original-3/23
B-Adjusted Dk values to match test results -6/23
All TerraGreen 400G2 glass is Spread Weave in both directions
Standard-Commonly available
Alternate-Available, but not stocked
The Dk referred to as 30GHz D is extracted based on VNA measurements of coupled differential lines

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