

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

Core Data

Construction	Resin Content %	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)										
					1 GHz	2 Ghz	5 Ghz	10 GHz	15 Ghz	20 Ghz					
1x1067	66.5%	Standard	0.0020	0.051	3.05 0.0017	3.05 0.0017	3.05 0.0017	3.05 0.0017	3.05 0.0017	3.05 0.0017	0.0000	0.0000	0.0000	0.0000	0.0000
1x1035	73.5%	Standard	0.0025	0.064	2.97 0.0014	2.97 0.0014	2.97 0.0014	2.97 0.0014	2.97 0.0014	2.97 0.0014	0.0000	0.0000	0.0000	0.0000	0.0000
1x1078	66.0%	Standard	0.0030	0.076	3.09 0.0018	3.09 0.0018	3.09 0.0018	3.09 0.0018	3.09 0.0018	3.09 0.0018	0.0000	0.0000	0.0000	0.0000	0.0000
1x1078	70.5%	Standard	0.0035	0.089	3.02 0.0015	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.01 0.0016	0.0000	0.0000	0.0000	0.0000	0.0000
2x1035	67.5%	Build to PO	0.0040	0.102	3.07 0.0017	3.07 0.0017	3.07 0.0017	3.07 0.0017	3.07 0.0017	3.07 0.0017	0.0000	0.0000	0.0000	0.0000	0.0000
1x3313	58.5%	Standard	0.0040	0.102	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	0.0000	0.0000	0.0000	0.0000	0.0000
2x1067	66.5%	Standard	0.0040	0.102	3.05 0.0017	3.05 0.0017	3.05 0.0017	3.05 0.0017	3.05 0.0017	3.05 0.0017	0.0000	0.0000	0.0000	0.0000	0.0000
2x1067	70.0%	Standard	0.0045	0.114	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.02 0.0016	0.0000	0.0000	0.0000	0.0000	0.0000
2x1078	60.0%	Build to PO	0.0050	0.127	3.19 0.0021	3.19 0.0021	3.19 0.0021	3.19 0.0021	3.19 0.0021	3.19 0.0021	0.0000	0.0000	0.0000	0.0000	0.0000
1x3313	66.0%	Build to PO	0.0050	0.127	3.11 0.0018	3.11 0.0018	3.11 0.0018	3.11 0.0018	3.11 0.0018	3.11 0.0018	0.0000	0.0000	0.0000	0.0000	0.0000
2x1067	72.5%	Standard	0.0050	0.127	2.98 0.0014	2.98 0.0014	2.98 0.0015	2.98 0.0015	2.98 0.0015	2.98 0.0015	0.0000	0.0000	0.0000	0.0000	0.0000
2x1078	66.0%	Standard	0.0060	0.152	3.09 0.0018	3.09 0.0018	3.09 0.0018	3.09 0.0018	3.09 0.0018	3.09 0.0018	0.0000	0.0000	0.0000	0.0000	0.0000
2x1078	70.5%	Standard	0.0070	0.178	3.02 0.0015	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.02 0.0016	3.01 0.0016	0.0000	0.0000	0.0000	0.0000	0.0000
2x3313	58.5%	Standard	0.0080	0.203	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	0.0000	0.0000	0.0000	0.0000	0.0000
2x3313	63.5%	Remove	0.0090	0.229	3.16 0.0020	3.16 0.0020	3.16 0.0020	3.16 0.0020	3.16 0.0020	3.16 0.0020	0.0000	0.0000	0.0000	0.0000	0.0000
3x1078	68.5%	Standard	0.0100	0.254	3.04 0.0016	3.04 0.0016	3.04 0.0016	3.04 0.0016	3.04 0.0016	3.04 0.0016	0.0000	0.0000	0.0000	0.0000	0.0000
2x3313	66.0%	Build to PO	0.0100	0.254	3.11 0.0018	3.11 0.0018	3.11 0.0018	3.11 0.0018	3.11 0.0018	3.11 0.0018	0.0000	0.0000	0.0000	0.0000	0.0000
3x3313	58.5%	Standard	0.0120	0.305	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	3.24 0.0022	0.0000	0.0000	0.0000	0.0000	0.0000

2x3313/1078	66.5%	Remove	0.0133	0.338	3.10 0.0018	3.10 0.0018	3.10 0.0018	3.10 0.0018	3.10 0.0018	3.10 0.0018	0.0000	0.0000	0.0000	0.0000	0.0000
3x3313	62.5%	Standard	0.0140	0.356	3.15 0.0020	3.15 0.0020	3.15 0.0020	3.15 0.0020	3.15 0.0020	3.15 0.0020	0.0000	0.0000	0.0000	0.0000	0.0000
4x2116	57.0%	Standard	0.0200	0.508	3.25 0.0022	3.25 0.0022	3.25 0.0022	3.25 0.0022	3.25 0.0022	3.25 0.0022	0.0000	0.0000	0.0000	0.0000	0.0000

2116	65.0%	Build to PO	0.0064	0.163	3.14 0.0019	3.14 0.0019	3.14 0.0019	3.14 0.0019	3.14 0.0019	3.14 0.0019
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NOTE

Revisions:

- A - Original-4/17
- B - Adjusted prepreg thickness values-6/18
- C - Added Standard & Alternate construction-8/18;
- D - Added 9 mil core 5/19
- E - Optimized construction set 6/19
- F - Clarified Weave and Offering, eliminated low Frequency data 1/20
- G - Removed Weave Type 9/20

All Tachyon 100G glass is Spread Weave in both directions

Standard-Commonly available; Alternate-Available, but not stocked

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