

Dielectric Constant (DK) Table

Core Data

Construction	Resin Content %	Weave Type	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)			
						5 Ghz	10 GHz	15 Ghz	20 Ghz
1x1035	63.0%	E-Spread	Standard	0.002	0.051	3.4	3.4	3.4	3.4
1x1035	65.5%	E-Spread	Standard	0.0025	0.064	3.3	3.3	3.3	3.3
1x1078	60.0%	E-Spread	Standard	0.003	0.076	3.4	3.4	3.4	3.4
1x1078	64.5%	E-Spread	Standard	0.0035	0.089	3.3	3.3	3.3	3.3
1x3313	52.0%	E-Open	Standard	0.004	0.102	3.6	3.6	3.6	3.6
2x1035	63.0%	E-Spread	Standard	0.004	0.102	3.4	3.4	3.4	3.4
2x1035	65.5%	E-Spread	Standard	0.0045	0.114	3.3	3.3	3.3	3.3
2x1078	54.0%	E-Spread	Standard	0.005	0.127	3.6	3.6	3.6	3.6
1x2116	51.0%	E-Open	Standard	0.005	0.127	3.6	3.6	3.6	3.6
2x1078	60.0%	E-Spread	Standard	0.006	0.152	3.4	3.4	3.4	3.4
2x1078	64.5%	E-Spread	Standard	0.007	0.178	3.3	3.3	3.3	3.3
2x3313	52.0%	E-Open	Standard	0.008	0.203	3.6	3.6	3.6	3.6

Dielectric Constant (DK) Table

Prepreg Data

Glass	Resin Content %	Weave Type	Offering	Thickness (mils)	Thickness (mm)	Dielectric Constant (DK)			
						5 Ghz	10 GHz	15 GHz	20 GHz
1035	63.0%	E-Spread	Standard	0.0020	0.051	3.4	3.4	3.4	3.4
1035	65.5%	E-Spread	Standard	0.0023	0.057	3.3	3.3	3.3	3.3
1035	68.0%	E-Spread	Standard	0.0025	0.064	3.3	3.3	3.3	3.3
1035	71.0%	E-Spread	Standard	0.0028	0.070	3.2	3.2	3.2	3.2
1078	60.0%	E-Spread	Standard	0.0030	0.076	3.4	3.4	3.4	3.4
1078	64.5%	E-Spread	Standard	0.0035	0.089	3.4	3.4	3.4	3.4
1078	70.0%	E-Spread	Standard	0.0042	0.107	3.3	3.3	3.3	3.3
1080	67.5%	E-Open	Standard	0.0038	0.097	3.3	3.3	3.3	3.3
1080	71.0%	E-Open	Standard	0.0043	0.109	3.2	3.2	3.2	3.2
3313	56.0%	E-Open	Standard	0.0045	0.114	3.5	3.5	3.5	3.5
3313	60.0%	E-Open	Standard	0.0051	0.130	3.4	3.4	3.4	3.4
2116	51.0%	E-Open	Standard	0.0050	0.127	3.6	3.6	3.6	3.6

Glass	Resin Content %	Weave Type	Offering	Thickness (mils)	Thickness (mm)	Dielectric Constant (DK)			
						5 Ghz	10 GHz	15 GHz	20 GHz
2116	56.0%	E-Open	Standard	0.0058	0.147	3.5	3.5	3.5	3.5
2116	59.5%	E-Open	Standard	0.0064	0.163	3.5	3.5	3.5	3.5

NOTE

ALL DATA IS PRELIMINARY AND SUBJECT TO CHANGE AS ADDITIONAL DATA BECOMES AVAILABLE

Revisions:

A - Original 1/2020

"Standard" - Commonly available with the best availability.

"Alternate" - Available, but not stocked with longer lead time

"Spread" - Glass is spread in both directions

Stripline structure