

Dielectric Constant (DK) / Dissipation Factor (DF) Table

Core Data

Construction	Resin Content %	Weave Type	Offering	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
						5 Ghz	10 GHz	15 Ghz	20 Ghz	28 Ghz SE	28 Ghz D
1x1035	65%	LDk Spread	Standard	0.0020	0.051	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.10 0.0019	2.90 0.0017
1x1035	71%	LDk Spread	Standard	0.0025	0.064	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1x1078	63%	LDk Spread	Standard	0.0030	0.076	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0017
1x1078	68%	LDk Spread	Standard	0.0035	0.089	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1x1027/1x1035	67%	L Dk Spread	Alternate	0.0035	0.089	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1x1078	71%	LDk Spread	Standard	0.0040	0.102	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
2x1035	65%	LDk Spread	Standard	0.0040	0.102	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0017
1x1035/1x1067	65%	L Dk Spread	Alternate	0.0040	0.102	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0017
1x3313	57%	LDk Spread	Standard	0.0040	0.102	3.40 0.0020	3.40 0.0020	3.40 0.0020	3.30 0.0020	3.30 0.0020	3.10 0.0018
2x1035	68%	LDk Spread	Standard	0.0045	0.114	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1x1067/1x1035	68%	L Dk Spread	Alternate	0.0045	0.114	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1x1078	74%	L Dk Spread	Alternate	0.0045	0.114	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017

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						5 Ghz	10 GHz	15 Ghz	20 Ghz	28 Ghz SE	28 Ghz D
1x3313	61%	LDk Spread	Standard	0.0045	0.114	3.30 0.0019	3.30 0.0019	3.30 0.0019	3.30 0.0019	3.20 0.0019	3.00 0.0017
2x1035	71%	LDk Spread	Standard	0.0050	0.127	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1035/1067	72%	L Dk Spread	Alternate	0.0050	0.127	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
1x3313	64%	LDk Spread	Standard	0.0050	0.127	3.30 0.0019	3.30 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0017
2x1078	63%	LDk Spread	Standard	0.0060	0.152	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0017
2x1078	68%	LDk Spread	Standard	0.0070	0.178	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.10 0.0019	3.10 0.0019	2.90 0.0017
2x3313	57%	LDk Spread	Standard	0.0080	0.203	3.40 0.0020	3.40 0.0020	3.40 0.0020	3.30 0.0020	3.30 0.0020	3.10 0.0018
3x1078	65%	LDk Spread	Standard	0.0100	0.254	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.20 0.0019	3.00 0.0017

Dielectric Constant (DK) / Dissipation Factor (DF) Table

Prepreg Data

Glass	Resin Content %	Weave Type	Offering	Thickness (mils)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
						5 GHz	10 GHz	15 GHz	20 GHz	28 GHz
1035	65.0%	LDk Spread	Standard	0.0020	0.051	3.20 0.0016	3.20 0.0016	3.20 0.0016	3.20 0.0016	3.20 0.0016
1035	71.0%	LDk Spread	Standard	0.0025	0.064	3.10 0.0014	3.10 0.0014	3.10 0.0014	3.10 0.0014	3.10 0.0014
1035	75.0%	LDk Spread	Standard	0.0030	0.076	3.10 0.0013	3.00 0.0013	3.00 0.0013	3.00 0.0013	3.00 0.0013
1078	63.0%	LDk Spread	Standard	0.0030	0.076	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017
1078	67.5%	LDk Spread	Standard	0.0035	0.089	3.20 0.0015	3.20 0.0015	3.20 0.0015	3.10 0.0015	3.10 0.0015
1078	71.0%	LDk Spread	Standard	0.0040	0.102	3.10 0.0015	3.10 0.0014	3.10 0.0014	3.10 0.0014	3.10 0.0014
1078	74.0%	LDk Spread	Standard	0.0045	0.114	3.10 0.0014	3.10 0.0014	3.10 0.0014	3.00 0.0014	3.00 0.0014
1080	74.5%	LDk Spread	Standard	0.0046	0.117	3.10 0.0013	3.10 0.0013	3.00 0.0013	3.00 0.0013	3.30 0.0013
3313	60.5%	LDk Spread	Standard	0.0045	0.114	3.30 0.0018	3.30 0.0018	3.30 0.0018	3.30 0.0018	3.30 0.0018
3313	64.5%	LDk Spread	Standard	0.0051	0.130	3.20 0.0016	3.20 0.0016	3.20 0.0016	3.20 0.0016	3.20 0.0016
3313	67.5%	LDk Spread	Standard	0.0057	0.145	3.20 0.0015	3.20 0.0015	3.20 0.0015	3.20 0.0015	3.20 0.0015
2116	60.5%	LDk Open	Standard	0.0058	0.147	3.30 0.0018	3.30 0.0018	3.30 0.0018	3.30 0.0018	3.30 0.0018

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						5 GHz	10 GHz	15 GHz	20 GHz	28 GHz
2116	63.5%	LDk Open	Standard	0.0064	0.163	3.30 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017

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