

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%	L2 Spread	Limited	0.0020	0.051	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
1x1035	71%	L2 Spread	Limited	0.0025	0.064	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.00 0.0017	2.80 0.0015
1x1078	63%	L2 Spread	Limited	0.0030	0.076	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.00 0.0015
1x1078	68%	L2 Spread	Limited	0.0035	0.089	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
2x1035	65%	L2 Spread	Limited	0.0040	0.102	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
1x1078	71%	L2 Spread	Limited	0.0040	0.102	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.00 0.0017	2.80 0.0015
2x1035	68%	L2 Spread	Limited	0.0045	0.114	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
1x1078	74%	L2 Spread	Limited	0.0045	0.114	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.00 0.0017	2.80 0.0015
2x1035	71%	L2 Spread	Limited	0.0050	0.127	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.00 0.0017	2.80 0.0015
2x1078	63%	L2 Spread	Limited	0.0060	0.152	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.00 0.0015
2x1078	68%	L2 Spread	Limited	0.0070	0.178	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015

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

Prepreg Data

Glass	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
1035	65%	L2-Spread	Limited	0.002	0.051	3.20 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
1035	71%	L2-Spread	Limited	0.0025	0.064	3.10 0.0017	3.10 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	2.80 0.0015
1035	75%	L2-Spread	Limited	0.003	0.076	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	2.80 0.0015
1078	63%	L2-Spread	Limited	0.003	0.076	3.20 0.0017	3.20 0.0017	3.20 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
1078	68%	L2-Spread	Limited	0.0035	0.089	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	3.10 0.0017	2.90 0.0015
1078	71%	L2-Spread	Limited	0.004	0.102	3.10 0.0017	3.10 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	2.80 0.0015
1078	74%	L2-Spread	Limited	0.0045	0.114	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	2.80 0.0015

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

"Limited" - Limited availability and longer lead time

"Spread" - Glass is spread in both directions

Stripline structure

Balance 100 um/4 mil dielectrics. 1 oz copper

LW 100 um/4 mil

Differential Structure

Balance 100 um/4 mil dielectrics. 1 oz copper

LW 100 um/4 mil Space 250 um/10 mil