

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

Core Data

Standard/ Alternate	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)				
			2 GHz	5 GHz	10 GHz	15 GHz	20 GHz
Standard	0.0025	0.064	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0050	0.127	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0075	0.191	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0100	0.254	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0125	0.318	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0150	0.381	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0200	0.508	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0300	0.762	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017
Standard	0.0600	1.524	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017	3.00 0.0017

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

Prepreg Data

Glass Style	Resin Content %	Thickness (inch)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
			Thickness (mm)	2 GHz	5 GHz	10 GHz	15 GHz	20 GHz
1035	73.00%	0.0025	0.064	2.97 0.0019	2.97 0.0019	2.97 0.0019	2.97 0.0019	2.97 0.0019
1067	72.00%	0.0025	0.064	2.98 0.0019	2.98 0.0019	2.98 0.0019	2.98 0.0019	2.98 0.0019
1067	77.00%	0.0032	0.081	2.91 0.0018	2.91 0.0018	2.91 0.0018	2.91 0.0018	2.91 0.0018
1078	70.00%	0.0036	0.091	3.01 0.0019	3.01 0.0019	3.01 0.0019	3.01 0.0019	3.01 0.0019
1078	74.00%	0.0042	0.107	2.95 0.0019	2.95 0.0019	2.95 0.0019	2.95 0.0019	2.95 0.0019

NOTE

Revisions:

A-Original-4/17

B-Added Standard & Alternate construction-8/18

C-Corrected 12.5 mil conversion to mm - 5/24

Standard-Commonly available with the best availability.

Alternate-Available, but not stocked with longer lead time

Isola, the Isola logo, The Base for Innovation, Astra, I-Fill, IsoDesign, IsoStack, I-Speed, I-Tera, Polyclad, Tachyon, and TerraGreen are registered trademarks or trademarks of ISOLA USA Corp. in the United States and in other countries. Copyright © 2023 Isola Group. All rights reserved.