

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

Core Data

Constructions	Resin Content %	Standard/Alternate	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
					100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
1x106	70%	Standard	0.002	0.05	4.20 0.013	4.20 0.014	4.10 0.015	4.10 0.017	4.10 0.017	4.10 0.017
1x1080	62%	Standard	0.003	0.08	4.40 0.012	4.30 0.013	4.20 0.014	4.20 0.016	4.20 0.017	4.20 0.017
1x2116	43%	Standard	0.004	0.10	4.90 0.011	4.70 0.011	4.70 0.012	4.70 0.014	4.60 0.015	4.60 0.017
1x3313	56%	Standard	0.004	0.10	4.50 0.012	4.40 0.012	4.40 0.013	4.40 0.016	4.40 0.016	4.40 0.016
1x2116	55%	Standard	0.005	0.13	4.60 0.011	4.50 0.012	4.40 0.013	4.40 0.016	4.40 0.016	4.40 0.016
2x1080	62%	Standard	0.006	0.15	4.40 0.012	4.30 0.013	4.20 0.014	4.20 0.016	4.20 0.017	4.20 0.017
1x7628	42%	Standard	0.007	0.18	4.90 0.010	4.70 0.011	4.70 0.012	4.70 0.014	4.70 0.014	4.70 0.015
1x7628	47%	Standard	0.008	0.20	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016
2x3313	56%	Standard	0.008	0.20	4.50 0.012	4.40 0.012	4.40 0.013	4.40 0.016	4.40 0.016	4.40 0.016
2x2116	55%	Standard	0.010	0.25	4.60 0.011	4.50 0.012	4.40 0.013	4.40 0.016	4.40 0.016	4.40 0.016
2x7628	42%	Standard	0.014	0.36	4.90 0.010	4.70 0.011	4.70 0.012	4.70 0.014	4.70 0.014	4.70 0.015
2x7628	47%	Standard	0.016	0.41	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016

Constructions	Resin Content %	Standard/Alternate	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
					100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
3x2116	57%	Alternate	0.016	0.41	4.50 0.012	4.40 0.012	4.40 0.013	4.40 0.016	4.40 0.016	4.40 0.016
3x7628	42%	Standard	0.020	0.51	4.90 0.010	4.70 0.011	4.70 0.012	4.70 0.014	4.70 0.014	4.70 0.015
4x7628	42%	Standard	0.028	0.71	4.90 0.010	4.70 0.011	4.70 0.012	4.70 0.014	4.70 0.014	4.70 0.015
4x7628	47%	Standard	0.031	0.79	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016
5x7628	47%	Standard	0.039	0.99	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016
6x7628	42%	Standard	0.042	1.07	4.90 0.010	4.70 0.011	4.70 0.012	4.70 0.014	4.70 0.014	4.70 0.015
6x7628	44%	Standard	0.044	1.12	4.80 0.011	4.70 0.011	4.60 0.012	4.70 0.014	4.60 0.015	4.60 0.016
6x7628	47%	Standard	0.047	1.19	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016
8x7628	44%	Standard	0.059	1.50	4.80 0.011	4.70 0.011	4.60 0.012	4.70 0.014	4.60 0.015	4.60 0.016
8x7628	47%	Standard	0.063	1.60	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016

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

Prepreg Data

Glass Style	Resin Content %	Standard/Alternate	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
					100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
106	70.0%	Standard	0.0019	0.05	4.20 0.013	4.20 0.014	4.10 0.015	4.10 0.017	4.10 0.017	4.10 0.017
106	74.0%	Standard	0.0022	0.06	4.20 0.013	4.10 0.014	4.00 0.015	4.00 0.018	4.00 0.018	4.00 0.018
106	76.0%	Standard	0.0024	0.06	4.10 0.013	4.10 0.014	4.00 0.015	4.00 0.018	4.00 0.018	4.00 0.018
1080	62.0%	Standard	0.0028	0.07	4.40 0.012	4.30 0.013	4.20 0.014	4.20 0.016	4.20 0.017	4.20 0.017
1035	75.0%	Standard	0.0028	0.07	4.10 0.013	4.10 0.014	4.00 0.015	4.00 0.018	4.00 0.018	4.00 0.018
1080	68.0%	Standard	0.0033	0.08	4.30 0.013	4.20 0.013	4.10 0.014	4.10 0.017	4.10 0.017	4.10 0.017
1080	72.0%	Standard	0.0039	0.10	4.20 0.013	4.20 0.014	4.20 0.015	4.10 0.018	4.10 0.018	4.10 0.018
2116	55.0%	Standard	0.0049	0.12	4.60 0.012	4.50 0.012	4.40 0.013	4.40 0.016	4.40 0.016	4.40 0.016
2116	58.0%	Standard	0.0055	0.14	4.50 0.012	4.40 0.012	4.30 0.013	4.30 0.016	4.30 0.016	4.30 0.016
7628	42.0%	Standard	0.0070	0.18	4.90 0.010	4.70 0.011	4.70 0.012	4.70 0.014	4.70 0.014	4.70 0.015
7628	46.0%	Standard	0.0077	0.20	4.80 0.011	4.70 0.011	4.60 0.012	4.60 0.014	4.60 0.015	4.60 0.016
7628	47.0%	Standard	0.0079	0.20	4.80 0.011	4.60 0.011	4.60 0.012	4.60 0.015	4.60 0.015	4.50 0.016

Glass Style	Resin Content %	Standard/Alternate	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK)/ Dissipation Factor (DF)					
					100 MHz	500 MHz	1 GHz	2 GHz	5 GHz	10 GHz
7628	52.0%	Standard	0.0088	0.22	4.60 0.011	4.50 0.012	4.50 0.013	4.50 0.015	4.40 0.016	4.40 0.016

NOTE

Revisions:

A-Original-12/19

B-Added 16 mil 3x2116 core construction

Standard-Commonly available with the best availability.

Alternate-Available, but not stocked with longer lead time