

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

Core Data

Construction	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 Ghz	2 GHz	5 Ghz	10 Ghz
1x106	74.0%	0.002	0.051	3.91 0.0177	3.81 0.0200	3.80 0.0230	3.78 0.0240	3.72 0.0291	3.72 0.0292
1x1080	65.0%	0.003	0.076	4.03 0.0163	3.95 0.0185	3.91 0.0210	3.88 0.0222	3.82 0.0262	3.82 0.0263
1x2116	46.0%	0.004	0.102	4.45 0.0142	4.37 0.0159	4.39 0.0170	4.35 0.0182	4.32 0.0210	4.30 0.0211
1x2116	54.0%	0.005	0.127	4.21 0.0141	4.17 0.0158	4.15 0.0180	4.12 0.0187	4.06 0.0189	4.05 0.0191
1x1652	51.0%	0.006	0.152	4.28 0.0136	4.24 0.0152	4.22 0.0172	4.20 0.0179	4.14 0.0180	4.13 0.0182
1x7628	41.0%	0.007	0.178	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
1x7628	45.0%	0.008	0.203	4.48 0.0141	4.40 0.0156	4.42 0.0168	4.37 0.0181	4.35 0.0200	4.32 0.0201
2x2116	54.0%	0.010	0.254	4.21 0.0141	4.17 0.0158	4.15 0.0180	4.12 0.0187	4.06 0.0189	4.05 0.0191
2x1652	51.0%	0.012	0.305	4.28 0.0136	4.24 0.0152	4.22 0.0172	4.20 0.0179	4.14 0.0180	4.13 0.0182
2x7628	42.0%	0.014	0.356	4.55 0.0137	4.48 0.0152	4.49 0.0162	4.45 0.0177	4.42 0.0190	4.39 0.0191
2x7628	44.0%	0.015	0.381	4.50 0.0140	4.43 0.0155	4.44 0.0165	4.40 0.0171	4.37 0.0200	4.34 0.0201
2x7628	45.0%	0.016	0.406	4.48 0.0141	4.40 0.0156	4.42 0.0168	4.37 0.0181	4.35 0.0200	4.32 0.0201

Construction	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 Ghz	2 GHz	5 GHz	10 GHz
2x7628/2116	41.0%	0.018	0.457	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
3x7628	41.0%	0.021	0.533	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
3x7628	45.0%	0.024	0.610	4.48 0.0141	4.40 0.0156	4.42 0.0168	4.37 0.0181	4.35 0.0200	4.32 0.0201
4x7628	41.0%	0.028	0.711	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
4x7628	44.0%	0.030	0.762	4.50 0.0140	4.43 0.0155	4.44 0.0165	4.40 0.0171	4.37 0.0200	4.34 0.0201
4x7628	45.0%	0.031	0.787	4.48 0.0141	4.40 0.0156	4.42 0.0168	4.37 0.0181	4.35 0.0200	4.32 0.0201
5x7628	41.0%	0.035	0.889	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
5x7628	44.0%	0.038	0.965	4.50 0.0140	4.43 0.0155	4.44 0.0165	4.40 0.0171	4.37 0.0200	4.34 0.0201
5x7628	45.0%	0.039	0.991	4.48 0.0141	4.40 0.0156	4.42 0.0168	4.37 0.0181	4.35 0.0200	4.32 0.0201
6x7628	41.0%	0.043	1.092	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
6x7628	45.0%	0.047	1.194	4.48 0.0141	4.40 0.0156	4.42 0.0168	4.37 0.0181	4.35 0.0200	4.32 0.0201
8x7628	41.0%	0.058	1.473	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
10x7628	44.0%	0.076	1.930	4.50 0.0140	4.43 0.0155	4.44 0.0165	4.40 0.0171	4.37 0.0200	4.34 0.0201
11x7628	44.0%	0.079	2.007	4.50 0.0140	4.43 0.0155	4.44 0.0165	4.40 0.0171	4.37 0.0200	4.34 0.0201
13x7628	41.0%	0.088	2.235	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
14x7628	41.0%	0.094	2.388	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189

Construction	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 Ghz	2 GHz	5 Ghz	10 Ghz
17x7628	41.0%	0.118	2.997	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189
18x7628	41.0%	0.125	3.175	4.58 0.0135	4.51 0.0149	4.52 0.0160	4.48 0.0164	4.45 0.0188	4.43 0.0189

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

Prepreg Data

Glass Style	Resin Content %	Thickness (inch)	Thickness (mm)	Dielectric Constant (DK) / Dissipation Factor (DF)					
				100 MHz	500 MHz	1 Ghz	2 GHz	5 Ghz	10 Ghz
106	74.0%	0.0023	0.058	3.91 0.0177	3.81 0.0200	3.80 0.0230	3.78 0.0240	3.72 0.0291	3.72 0.0292
1080	65.0%	0.0031	0.079	4.03 0.0163	3.95 0.0185	3.91 0.0210	3.88 0.0222	3.82 0.0262	3.82 0.0263
1080	69.0%	0.0035	0.089	3.97 0.0170	3.89 0.0192	3.86 0.0220	3.84 0.0232	3.77 0.0275	3.77 0.0277
2113	57.0%	0.0040	0.102	4.20 0.0161	4.11 0.0180	4.10 0.0200	4.08 0.0210	4.03 0.0240	4.02 0.0241
2116	53.0%	0.0047	0.119	4.30 0.0145	4.21 0.0163	4.20 0.0186	4.18 0.0194	4.13 0.0225	4.12 0.0226
2116	57.0%	0.0053	0.135	4.20 0.0161	4.11 0.0180	4.10 0.0200	4.08 0.0210	4.03 0.0240	4.02 0.0241
7628	46.0%	0.0079	0.201	4.45 0.0142	4.37 0.0159	4.39 0.0170	4.35 0.0182	4.32 0.0210	4.30 0.0211
7628	51.0%	0.0087	0.221	4.35 0.0143	4.26 0.0160	4.25 0.0181	4.23 0.0189	4.18 0.0220	4.17 0.0221

NOTE

Please Contact us for more details in below details.

Isola Group 3100 West Ray Road

Suite 301

Chandler, AZ 85226

Phone: 480-893-6527

Phone: 800-537-7656

Fax: 480-893-1409