

Core Data

Core Constructions	Resin Content (%)	Thickness (inch)	Thickness (mm)	Dielectric Constant(DK) / Dissipation Factor(DF)							
				100 MHz	500 MHz	1.0 GHz	2.0 GHz	5.0 GHz	10.0 GHz	15.0 GHz	20.0 GHz
1x106	70.0	0.0020	0.0508	3.67 0.0150	3.63 0.0170	3.61 0.0196	3.58 0.0205	3.57 0.0243	3.57 0.0287		
1x106	74.0	0.0025	0.0635	3.61 0.0155	3.56 0.0176	3.54 0.0203	3.51 0.0213	3.50 0.0253	3.50 0.0302		
1x1080	61.0	0.0030	0.0762	3.83 0.0140	3.79 0.0157	3.78 0.0180	3.75 0.0188	3.73 0.0221	3.73 0.0259		
2x106	66.0	0.0035	0.0889	3.74 0.0145	3.70 0.0164	3.68 0.0189	3.65 0.0197	3.64 0.0233	3.64 0.0275		
2x106	70.0	0.0042	0.1067	3.67 0.0150	3.63 0.0170	3.61 0.0196	3.58 0.0205	3.57 0.0243	3.57 0.0287		
106/1080	61.0	0.0045	0.1143	3.83 0.0140	3.79 0.0157	3.78 0.0180	3.75 0.0188	3.73 0.0221	3.73 0.0259		
106/1080	65.0	0.0050	0.1270	3.76 0.0144	3.72 0.0163	3.70 0.0187	3.67 0.0195	3.66 0.0231	3.66 0.0272		
106/2113	53.0	0.0053	0.1346	3.99 0.0130	3.95 0.0146	3.94 0.0166	3.91 0.0172	3.90 0.0201	3.90 0.0235		
106/2116	49.0	0.0060	0.1524	4.07 0.0126	4.04 0.0140	4.03 0.0158	4.00 0.0164	3.99 0.0191	3.99 0.0222		
1080/2116	51.0	0.0070	0.1778	4.03 0.0128	4.00 0.0143	3.98 0.0162	3.96 0.0168	3.94 0.0196	3.94 0.0228		
2113/2116	47.0	0.0080	0.2032	4.12 0.0123	4.09 0.0137	4.07 0.0155	4.05 0.0160	4.04 0.0186	4.04 0.0216		

P96 DK/DF Constructions

Core Constructions	Resin Content (%)	Thickness (inch)	Thickness (mm)	Dielectric Constant(DK) / Dissipation Factor(DF)							
				100 MHz	500 MHz	1.0 GHz	2.0 GHz	5.0 GHz	10.0 GHz	15.0 GHz	20.0 GHz
2x2113/106	54.0	0.0090	0.2286	3.97 0.0132	3.93 0.0147	3.92 0.0167	3.89 0.0174	3.88 0.0203	3.88 0.0238		
2x1080/2116	54.0	0.0100	0.2540	3.97 0.0132	3.93 0.0147	3.92 0.0167	3.89 0.0174	3.88 0.0203	3.88 0.0238		
2x2116/2113	47.0	0.0120	0.3048	4.12 0.0123	4.09 0.0137	4.07 0.0155	4.05 0.0160	4.04 0.0186	4.04 0.0216		
2x7628	39.0	0.0140	0.3556	4.32 0.0109	4.25 0.0122	4.24 0.0139	4.23 0.0144	4.20 0.0169	4.20 0.0192		
2x7628/1080	42.0	0.0160	0.4064	4.04 0.0087	4.02 0.0094	4.01 0.0104	4.00 0.0107	3.99 0.0112	3.99 0.0110		
2x7628/106	40.0	0.0160	0.4064	4.26 0.0111	4.23 0.0124	4.22 0.0141	4.21 0.0146	4.18 0.0171	4.18 0.0195		
2x7628/2116	41.0	0.0180	0.4572	4.07 0.0086	4.05 0.0094	4.04 0.0103	4.03 0.0106	4.02 0.0111	4.01 0.0109		
2x7628/2113	41.0	0.0180	0.4572	4.24 0.0113	4.21 0.0126	4.20 0.0143	4.19 0.0148	4.16 0.0173	4.16 0.0198		
2x2113/2x7628	42.0	0.0200	0.5080	4.22 0.0115	4.19 0.0128	4.18 0.0145	4.17 0.0150	4.14 0.0175	4.14 0.0201		
3x7628/2116	40.0	0.0240	0.6096	4.26 0.0111	4.23 0.0124	4.22 0.0141	4.21 0.0146	4.18 0.0171	4.18 0.0195		
4x7628	39.0	0.0280	0.7112	4.28 0.0109	4.25 0.0122	4.24 0.0139	4.23 0.0144	4.20 0.0169	4.20 0.0192		
6x7628	36.0	0.0390	0.9906	4.34 0.0103	4.31 0.0116	4.30 0.0133	4.29 0.0138	4.26 0.0163	4.26 0.0183		
4x7628/2116	39.0	0.3100	7.8740	4.28 0.0109	4.25 0.0122	4.24 0.0139	4.23 0.0144	4.20 0.0169	4.20 0.0192		

Prepreg Data

Prepreg Constructions	Resin Content (%)	Thickness (inch)	Thickness (mm)	Dielectric Constant(DK) / Dissipation Factor(DF)							
				100 MHz	500 MHz	1.0 GHz	2.0 GHz	5.0 GHz	10.0 GHz	15.0 GHz	20.0 GHz
106	75.0	0.0025	0.0635	3.59	3.55	3.53	3.50	3.48	3.48		
				0.0156	0.0177	0.0205	0.0215	0.0255	0.0302		
1080	65.0	0.0032	0.0813	3.76	3.72	3.70	3.67	3.66	3.66		
				0.0144	0.0163	0.0187	0.0195	0.0231	0.0272		
2113	57.0	0.0044	0.1118	3.91	3.87	3.86	3.83	3.82	3.82		
				0.0135	0.0152	0.0173	0.0180	0.0211	0.0247		
2116	54.0	0.0052	0.1321	3.97	3.93	3.92	3.89	3.88	3.88		
				0.0132	0.0147	0.0167	0.0174	0.0203	0.0238		
7628	42.0	0.0074	0.1880	4.22	4.19	4.18	4.17	4.14	4.14		
				0.0115	0.0128	0.0145	0.0150	0.0175	0.0201		