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	73.0	0.0020 BC	0.0508 BC	3.36 0.0103	3.32 0.0116	3.31 0.0133	3.29 0.0139	3.27 0.0147	3.26 0.0145		
1x1080	59.0	0.0027	0.0686	3.63 0.0096	3.61 0.0106	3.60 0.0120	3.58 0.0124	3.57 0.0131	3.56 0.0129		
1x1080	64.0	0.0030	0.0762	3.52 0.0100	3.50 0.0110	3.49 0.0124	3.47 0.0129	3.46 0.0137	3.45 0.0135		
1x2113	51.0	0.0035	0.0889	3.81 0.0092	3.79 0.0101	3.78 0.0112	3.77 0.0116	3.75 0.0122	3.75 0.0120		
2x106	67.0	0.0035	0.0889	3.46 0.0100	3.44 0.0112	3.43 0.0127	3.41 0.0133	3.39 0.0140	3.38 0.0138		
2x106	70.0	0.0040	0.1016	3.40 0.0101	3.38 0.0114	3.37 0.0130	3.35 0.0136	3.33 0.0144	3.32 0.0142		
1x3313	54.0	0.0040	0.1016	3.74 0.0093	3.72 0.0103	3.71 0.0115	3.70 0.0119	3.68 0.0125	3.67 0.0124		
1x3070	48.0	0.0040	0.1016	3.88 0.0090	3.87 0.0098	3.86 0.0109	3.84 0.0113	3.83 0.0119	3.82 0.0117		
106/1080	61.0	0.0043	0.1092	3.58 0.0097	3.56 0.0108	3.55 0.0122	3.54 0.0126	3.52 0.0133	3.51 0.0132		
1x2116	52.0	0.0048	0.1219	3.76 0.0092	3.74 0.0102	3.73 0.0113	3.72 0.0117	3.71 0.0123	3.70 0.0123		
1x2116	53.0	0.0050	0.1270	3.76 0.0092	3.74 0.0102	3.73 0.0114	3.72 0.0118	3.71 0.0124	3.70 0.0123		

FR408 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
2x1080	57.0	0.0050	0.1270	3.67	3.65	3.64	3.63	3.61	3.60		
				0.0095	0.0105	0.0118	0.0122	0.0129	0.0127		
106/2113	56.0	0.0053	0.1346	3.69	3.67	3.66	3.65	3.63	3.63		
				0.0094	0.0104	0.0117	0.0121	0.0128	0.0126		
1x1652	46.0	0.0055	0.1397	3.94	3.92	3.91	3.90	3.88	3.88		
				0.0089	0.0097	0.0108	0.0111	0.0116	0.0125		
106/2113	58.0	0.0055	0.1397	3.65	3.63	3.62	3.60	3.59	3.58		
				0.0095	0.0105	0.0119	0.0123	0.0130	0.0128		
2x1080	63.0	0.0060	0.1524	3.54	3.52	3.51	3.49	3.48	3.47		
				0.0098	0.0109	0.0123	0.0128	0.0136	0.0134		
1x1652	50.0	0.0060	0.1524	3.84	3.82	3.81	3.79	3.78	3.77		
				0.0091	0.0100	0.0111	0.0115	0.0121	0.0119		
1080/2113	54.0	0.0060	0.1524	3.74	3.72	3.71	3.70	3.68	3.67		
				0.0093	0.0103	0.0115	0.0119	0.0125	0.0124		
2x3313	54.0	0.0080	0.2032	3.74	3.72	3.71	3.70	3.68	3.67		
				0.0093	0.0103	0.0115	0.0119	0.0125	0.0124		
2x2116	53.0	0.0100	0.2540	3.75	3.73	3.72	3.71	3.69	3.68		
				0.0092	0.0102	0.0114	0.0118	0.0124	0.0123		
1x1080/2x2116	52.0	0.0120	0.3048	3.76	3.74	3.73	3.72	3.71	3.70		
				0.0092	0.0102	0.0113	0.0117	0.0123	0.0123		
3x2116	52.0	0.0140	0.3556	3.76	3.74	3.73	3.72	3.71	3.70		
				0.0092	0.0102	0.0113	0.0117	0.0123	0.0123		
2x7628/1080	42.0	0.0160	0.4064	4.04	4.02	4.01	4.00	3.99	3.99		
				0.0087	0.0094	0.0104	0.0107	0.0112	0.0110		
2x7628/2116	41.0	0.0180	0.4572	4.07	4.05	4.04	4.03	4.02	4.01		
				0.0086	0.0094	0.0103	0.0106	0.0111	0.0109		

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	0.0023	0.0584	3.31	3.28	3.27	3.25	3.23	3.23		
				0.0104	0.0117	0.0135	0.0141	0.0150	0.0147		
1080	65.0	0.0031	0.0787	3.50	3.48	3.47	3.45	3.43	3.43		
				0.0099	0.0110	0.0127	0.0131	0.0138	0.0136		
1080	68.0	0.0034	0.0864	3.44	3.42	3.41	3.39	3.37	3.36		
				0.0100	0.0112	0.0128	0.0134	0.0141	0.0139		
3313	53.0	0.0037	0.0940	3.76	3.74	3.73	3.72	3.71	3.70		
				0.0092	0.0102	0.0114	0.0118	0.0124	0.0123		
1080	71.0	0.0038	0.0965	3.38	3.35	3.35	3.33	3.31	3.30		
				0.0102	0.0115	0.0131	0.0137	0.0145	0.0143		
2113	57.0	0.0040	0.1016	3.67	3.65	3.64	3.63	3.61	3.60		
				0.0095	0.0105	0.0118	0.0122	0.0129	0.0127		
3313	59.0	0.0041	0.1041	3.74	3.72	3.71	3.70	3.68	3.67		
				0.0096	0.0106	0.0120	0.0124	0.0131	0.0129		
2116	56.0	0.0051	0.1295	3.69	3.67	3.66	3.65	3.63	3.63		
				0.0094	0.0104	0.0117	0.0121	0.0128	0.0126		
1652	50.0	0.0058	0.1473	3.84	3.82	3.81	3.79	3.78	3.77		
				0.0091	0.0100	0.0111	0.0115	0.0121	0.0119		
7628	44.0	0.0071	0.1803	3.99	3.97	3.96	3.95	3.94	3.93		
				0.0088	0.0096	0.0106	0.0110	0.0110	0.0110		