

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	72.0	0.0020	0.0508	3.85	3.80	3.78	3.75	3.63	3.63		
				0.0152	0.0173	0.0199	0.0210	0.0214	0.0210		
1x1067	66.0	0.0020	0.0508	3.94	3.90	3.88	3.85	3.73	3.73		
				0.0145	0.0200	0.0189	0.0197	0.0202	0.0195		
1x1067	70.0	0.0025	0.0635	3.88	3.83	3.81	3.78	3.66	3.66		
				0.0150	0.0170	0.0196	0.0205	0.0210	0.0203		
1x1080	58.0	0.0025	0.0635	4.08	4.04	4.02	4.00	3.89	3.89		
				0.0136	0.0153	0.0175	0.0182	0.0186	0.0180		
1x1080	64.0	0.0030	0.0762	3.98	3.93	3.91	3.89	3.77	3.77		
				0.0143	0.0161	0.0185	0.0193	0.0198	0.0191		
1x2313	52.0	0.0035	0.0889	4.19	4.15	4.14	4.11	4.01	4.01		
				0.0129	0.0144	0.0164	0.0170	0.0173	0.0168		
1x2313	56.0	0.0040	0.1016	4.12	4.08	4.06	4.03	3.93	3.93		
				0.0134	0.0150	0.0171	0.0178	0.0181	0.0176		
2x106	72.0	0.0040	0.1016	3.85	3.80	3.78	3.75	3.63	3.63		
				0.0152	0.0173	0.0199	0.0210	0.0214	0.0210		
1x2116	46.0	0.0042	0.1067	4.31	4.28	4.26	4.24	4.15	4.15		
				0.0122	0.0136	0.0153	0.0159	0.0161	0.0156		
1x2116	50.0	0.0045	0.1143	4.23	4.19	4.18	4.15	4.06	4.06		
				0.0127	0.0141	0.0160	0.0166	0.0169	0.0164		
1x2116	56.0	0.0050	0.1270	4.12	4.08	4.06	4.03	3.93	3.93		
				0.0134	0.0150	0.0171	0.0178	0.0181	0.0176		

DE156 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
2x1086	60.0	0.0060	0.1524	4.04	4.00	3.99	3.96	3.85	3.85		
				0.0138	0.0156	0.0178	0.0186	0.0190	0.0184		
1x1506	44.0	0.0060	0.1524	4.35	4.32	4.30	4.28	4.19	4.19		
				0.0120	0.0133	0.0149	0.0155	0.0157	0.0152		
2x1080	64.0	0.0060	0.1524	3.98	3.93	3.91	3.89	3.77	3.77		
				0.0143	0.0161	0.0185	0.0193	0.0198	0.0191		
1x7628	42.0	0.0070	0.1778	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		
2x2313	56.0	0.0080	0.2032	4.12	4.08	4.06	4.03	3.93	3.93		
				0.0134	0.0150	0.0171	0.0178	0.0181	0.0176		
1x7628	45.0	0.0080	0.2032	4.33	4.30	4.28	4.26	4.17	4.17		
				0.0121	0.0134	0.0151	0.0157	0.0159	0.0154		
2x2116	46.0	0.0080	0.2032	4.31	4.28	4.26	4.24	4.15	4.15		
				0.0122	0.0136	0.0153	0.0159	0.0161	0.0156		
2x2116	56.0	0.0100	0.2540	4.12	4.08	4.06	4.03	3.93	3.93		
				0.0134	0.0150	0.0171	0.0178	0.0181	0.0176		
2x1652	44.0	0.0100	0.2540	4.35	4.32	4.30	4.28	4.19	4.19		
				0.0120	0.0133	0.0149	0.0155	0.0157	0.0152		
2x1506	44.0	0.0120	0.3048	4.35	4.32	4.30	4.28	4.19	4.19		
				0.0120	0.0133	0.0149	0.0155	0.0157	0.0152		
2x7628	42.0	0.0140	0.3556	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		
2x7628	45.0	0.0160	0.4064	4.33	4.30	4.28	4.26	4.17	4.17		
				0.0121	0.0134	0.0151	0.0157	0.0159	0.0154		
2x7628/1080	46.0	0.0180	0.4572	4.31	4.28	4.26	4.24	4.15	4.15		
				0.0122	0.0136	0.0153	0.0159	0.0161	0.0156		

DE156 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
2x7628/1506	43.0	0.0200	0.5080	4.37	4.34	4.33	4.30	4.22	4.22		
				0.0119	0.0131	0.0147	0.0153	0.0155	0.0150		
3x7628	42.0	0.0210	0.5334	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		
3x7628	45.0	0.0240	0.6096	4.33	4.30	4.28	4.26	4.17	4.17		
				0.0121	0.0134	0.0151	0.0157	0.0159	0.0154		
4x7628	42.0	0.0310	0.7874	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		
5x7628	42.0	0.0390	0.9906	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		
6x7628	42.0	0.0470	1.1938	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		
8x7628	42.0	0.0590	1.4986	4.39	4.36	4.35	4.33	4.24	4.24		
				0.0118	0.0130	0.0146	0.0151	0.0153	0.0149		

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				
1037	70.0	0.0018	0.0457	3.88	3.83	3.81	3.78	3.66	3.66	0.0150	0.0170	0.0196	0.0205	0.0210	0.0203
106	70.0	0.0020	0.0508	3.88	3.83	3.81	3.78	3.66	3.66	0.0150	0.0170	0.0196	0.0205	0.0210	0.0203
106	75.0	0.0024	0.0610	3.80	3.75	3.73	3.70	3.57	3.57	0.0155	0.0177	0.0204	0.0214	0.0220	0.0212
106	77.0	0.0026	0.0660	3.77	3.72	3.70	3.67	3.54	3.54	0.0157	0.0180	0.0208	0.0218	0.0224	0.0216
1067	72.0	0.0026	0.0660	3.85	3.80	3.78	3.75	3.63	3.63	0.0152	0.0173	0.0199	0.0210	0.0214	0.0210
1080	62.0	0.0028	0.0711	4.01	3.97	3.95	3.92	3.81	3.81	0.0141	0.0159	0.0182	0.0189	0.0194	0.0187
1080	64.0	0.0031	0.0787	3.98	3.93	3.91	3.89	3.77	3.77	0.0143	0.0161	0.0185	0.0193	0.0198	0.0191
1080	68.0	0.0035	0.0889	3.91	3.87	3.85	3.82	3.70	3.70	0.0147	0.0167	0.0192	0.0201	0.0206	0.0199
1086	64.0	0.0035	0.0889	3.98	3.93	3.91	3.89	3.77	3.77	0.0143	0.0161	0.0185	0.0193	0.0198	0.0191
2313	53.0	0.0038	0.0965	4.17	4.13	4.12	4.09	3.99	3.99	0.0130	0.0146	0.0166	0.0172	0.0175	0.0170
2313	56.0	0.0042	0.1067	4.12	4.08	4.06	4.03	3.93	3.93	0.0134	0.0150	0.0171	0.0178	0.0181	0.0176
2116	54.0	0.0050	0.1270	4.15	4.12	4.10	4.07	3.97	3.97	0.0132	0.0147	0.0167	0.0174	0.0177	0.0172

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				100 MHz	500 MHz	1.0 GHz	2.0 GHz	5.0 GHz	10.0 GHz	15.0 GHz	20.0 GHz
2116	56.0	0.0052	0.1321	4.12	4.08	4.06	4.03	3.93	3.93		
				0.0134	0.0150	0.0171	0.0178	0.0181	0.0176		
2116	58.0	0.0055	0.1397	4.08	4.04	4.02	4.00	3.89	3.89		
				0.0136	0.0153	0.0175	0.0182	0.0186	0.0180		
1506	44.0	0.0059	0.1499	4.35	4.32	4.30	4.28	4.19	4.19		
				0.0120	0.0133	0.0149	0.0155	0.0157	0.0152		
1506	48.0	0.0066	0.1676	4.27	4.23	4.22	4.19	4.10	4.10		
				0.0125	0.0138	0.0156	0.0162	0.0165	0.0180		
7628	44.0	0.0076	0.1930	4.35	4.32	4.30	4.28	4.19	4.19		
				0.0120	0.0133	0.0149	0.0155	0.0157	0.0152		
7629	48.0	0.0085	0.2159	4.27	4.23	4.22	4.19	4.10	4.10		
				0.0125	0.0138	0.0156	0.0182	0.0165	0.0160		