

## 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	76.0	0.0020 Not ZBC	0.0508 Not ZBC	3.26 0.0041	3.25 0.0046	3.25 0.0052	3.24 0.0054	3.24 0.0054	3.24 0.0055	3.24 0.0055	3.24 0.0055
1x1035 MS	71.5	0.0020 Not ZBC	0.0508 Not ZBC	3.32 0.0042	3.32 0.0046	3.31 0.0052	3.31 0.0054	3.31 0.0054	3.31 0.0054	3.31 0.0054	3.30 0.0054
1x1080	63.0	0.0025	0.0635	3.45 0.0043	3.44 0.0047	3.44 0.0051	3.43 0.0053	3.43 0.0053	3.43 0.0054	3.43 0.0054	3.43 0.0054
1x1067 MS	74.5	0.0025	0.0635	3.28 0.0041	3.27 0.0046	3.27 0.0052	3.26 0.0054	3.26 0.0054	3.26 0.0055	3.26 0.0055	3.26 0.0054
1x1078 MS	68.5	0.0030	0.0762	3.37 0.0042	3.36 0.0046	3.35 0.0052	3.35 0.0053	3.35 0.0053	3.35 0.0054	3.35 0.0054	3.35 0.0054
1x1080	68.5	0.0030	0.0762	3.37 0.0042	3.36 0.0046	3.35 0.0052	3.35 0.0053	3.35 0.0053	3.35 0.0054	3.35 0.0054	3.35 0.0054
1x1078 MS	72.5	0.0035	0.0889	3.31 0.0042	3.30 0.0046	3.30 0.0052	3.29 0.0054	3.29 0.0054	3.29 0.0054	3.29 0.0054	3.29 0.0054
1x2013	56.0	0.0035	0.0889	3.56 0.0043	3.55 0.0047	3.55 0.0051	3.54 0.0053	3.54 0.0053	3.54 0.0053	3.54 0.0053	3.54 0.0053
2x1035 MS	70.0	0.0040	0.1016	3.34 0.0042	3.34 0.0046	3.33 0.0052	3.33 0.0054	3.33 0.0054	3.33 0.0054	3.33 0.0054	3.33 0.0054
2x106	74.5	0.0040	0.1016	3.28 0.0041	3.27 0.0046	3.27 0.0052	3.26 0.0054	3.26 0.0054	3.26 0.0055	3.26 0.0055	3.26 0.0054
1x2013 MS	60.5	0.0040	0.1016	3.49 0.0043	3.48 0.0047	3.47 0.0051	3.47 0.0053	3.47 0.0053	3.47 0.0054	3.47 0.0054	3.47 0.0054

# I-SpeedIS 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
1x2116	56.5	0.0045	0.1143	3.55 0.0043	3.54 0.0047	3.54 0.0051	3.53 0.0053	3.53 0.0053	3.53 0.0053	3.53 0.0053	3.53 0.0053
1x2116	60.0	0.0050	0.1270	3.49 0.0043	3.49 0.0047	3.48 0.0051	3.48 0.0053	3.48 0.0053	3.48 0.0054	3.48 0.0054	3.48 0.0054
2x1067 MS	74.5	0.0050	0.1270	3.28 0.0041	3.27 0.0046	3.27 0.0052	3.26 0.0054	3.26 0.0054	3.26 0.0055	3.26 0.0055	3.26 0.0054
2x1080	63.0	0.0050	0.1270	3.45 0.0043	3.44 0.0047	3.44 0.0051	3.43 0.0053	3.43 0.0053	3.43 0.0054	3.43 0.0054	3.43 0.0054
2x1078 MS	68.5	0.0060	0.1524	3.37 0.0042	3.36 0.0046	3.35 0.0052	3.35 0.0053	3.35 0.0053	3.35 0.0054	3.35 0.0054	3.35 0.0054
2x1080	68.5	0.0060	0.1524	3.37 0.0042	3.36 0.0046	3.35 0.0052	3.35 0.0053	3.35 0.0053	3.35 0.0054	3.35 0.0054	3.35 0.0054
2x2013	56.0	0.0070	0.1778	3.56 0.0043	3.55 0.0047	3.55 0.0051	3.54 0.0053	3.54 0.0053	3.54 0.0053	3.54 0.0053	3.54 0.0053
2x1078 MS	72.5	0.0070	0.1778	3.31 0.0042	3.30 0.0046	3.30 0.0052	3.29 0.0054	3.29 0.0054	3.29 0.0054	3.29 0.0054	3.29 0.0054
2x1078 MS	75.5	0.0080	0.2032	3.27 0.0041	3.26 0.0046	3.26 0.0052	3.25 0.0054	3.25 0.0054	3.25 0.0055	3.25 0.0055	3.25 0.0055
2x2013	60.5	0.0080	0.2032	3.49 0.0043	3.48 0.0047	3.47 0.0051	3.47 0.0053	3.47 0.0053	3.47 0.0054	3.47 0.0054	3.47 0.0054
2x2116	56.5	0.0090	0.2286	3.55 0.0043	3.54 0.0047	3.54 0.0051	3.53 0.0053	3.53 0.0053	3.53 0.0053	3.53 0.0053	3.53 0.0053
2x2116	60.0	0.0100	0.2540	3.49 0.0043	3.49 0.0047	3.48 0.0051	3.48 0.0053	3.48 0.0053	3.48 0.0054	3.48 0.0054	3.48 0.0054
3x2013	60.5	0.0120	0.3048	3.49 0.0043	3.48 0.0047	3.47 0.0051	3.47 0.0053	3.47 0.0053	3.47 0.0054	3.47 0.0054	3.47 0.0054

# I-SpeedIS 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
3x2116	57.7	0.0140	0.3556	3.53	3.53	3.52	3.52	3.52	3.52	3.52	3.52
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0053	0.0053	0.0053
3x2116	62.1	0.0160	0.4064	3.46	3.45	3.45	3.45	3.45	3.45	3.45	3.44
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0054	0.0054	0.0054
4x2116	56.5	0.0180	0.4572	3.55	3.54	3.54	3.53	3.53	3.53	3.53	3.53
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0053	0.0053	0.0053
4x2116	60.0	0.0200	0.5080	3.49	3.49	3.48	3.48	3.48	3.48	3.48	3.48
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0054	0.0054	0.0054

## 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
1035 MS	71.5	0.0020	0.0508	3.32	3.32	3.31	3.31	3.31	3.31	3.31	3.30
				0.0042	0.0046	0.0052	0.0054	0.0054	0.0054	0.0054	0.0054
106	76.0	0.0022	0.0559	3.26	3.25	3.25	3.24	3.24	3.24	3.24	3.24
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0055
1067 MS	74.5	0.0025	0.0635	3.28	3.27	3.27	3.26	3.26	3.26	3.26	3.26
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0054
106	79.0	0.0025	0.0635	3.22	3.21	3.21	3.20	3.20	3.20	3.20	3.20
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0055
1035 MS	76.0	0.0026	0.0660	3.26	3.25	3.25	3.24	3.24	3.24	3.24	3.24
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0055
1067 MS	77.0	0.0028	0.0711	3.25	3.24	3.24	3.23	3.23	3.23	3.23	3.23
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0055
1080	68.5	0.0030	0.0762	3.37	3.36	3.35	3.35	3.35	3.35	3.35	3.35
				0.0042	0.0046	0.0052	0.0053	0.0053	0.0054	0.0054	0.0054
1078 MS	68.5	0.0030	0.0762	3.37	3.36	3.35	3.35	3.35	3.35	3.35	3.35
				0.0042	0.0046	0.0052	0.0053	0.0053	0.0054	0.0054	0.0054
1067 MS	79.5	0.0032	0.0813	3.22	3.21	3.20	3.20	3.20	3.20	3.20	3.20
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0055
1080	72.5	0.0036	0.0914	3.31	3.30	3.30	3.29	3.29	3.29	3.29	3.29
				0.0042	0.0046	0.0052	0.0054	0.0054	0.0054	0.0054	0.0054
1078 MS	72.5	0.0036	0.0914	3.31	3.30	3.30	3.29	3.29	3.29	3.29	3.29
				0.0042	0.0046	0.0052	0.0054	0.0054	0.0054	0.0054	0.0054
2013	60.5	0.0040	0.1016	3.49	3.48	3.47	3.47	3.47	3.47	3.47	3.47
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0054	0.0054	0.0054

# I-SpeedIS DK/DF Constructions

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
1078 MS	75.5	0.0040	0.1016	3.27	3.26	3.26	3.25	3.25	3.25	3.25	3.25
				0.0041	0.0046	0.0052	0.0054	0.0054	0.0055	0.0055	0.0055
2013	63.5	0.0044	0.1118	3.44	3.43	3.43	3.42	3.42	3.42	3.42	3.42
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0054	0.0054	0.0054
2116	60.0	0.0050	0.1270	3.49	3.49	3.48	3.48	3.48	3.48	3.48	3.48
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0054	0.0054	0.0054
2116	63.0	0.0055	0.1397	3.45	3.44	3.44	3.43	3.43	3.43	3.43	3.43
				0.0043	0.0047	0.0051	0.0053	0.0053	0.0054	0.0054	0.0054