

TU-872 SLK Typical Dk/Df Value

Thin core Standard Construction List

Nominal Thickness		Standard Construction	Dk@						Df@					
(mils)	(mm)		1GHz	2GHz	5GHz	10GHz	15GHz	20GHz	1GHz	2GHz	5GHz	10GHz	15GHz	20GHz
2.0	0.051	1067x1	3.61	3.44	3.44	3.42	3.39	3.37	0.0083	0.0085	0.0086	0.0090	0.0094	0.0101
2.0	0.051	106x1	3.51	3.33	3.34	3.32	3.28	3.27	0.0085	0.0086	0.0087	0.0091	0.0095	0.0102
2.5	0.064	1067x1	3.48	3.30	3.31	3.29	3.26	3.25	0.0086	0.0087	0.0088	0.0091	0.0095	0.0102
2.5	0.064	1080x1	3.80	3.66	3.65	3.62	3.59	3.57	0.0080	0.0081	0.0083	0.0088	0.0092	0.0099
3.0	0.076	1078x1	3.68	3.52	3.52	3.50	3.46	3.45	0.0082	0.0083	0.0085	0.0089	0.0093	0.0100
3.0	0.076	1080x1	3.68	3.52	3.52	3.50	3.46	3.45	0.0082	0.0083	0.0085	0.0089	0.0093	0.0100
3.5	0.089	3313x1	4.00	3.88	3.87	3.82	3.79	3.78	0.0076	0.0077	0.0081	0.0087	0.0091	0.0098
4.0	0.102	3313x1	3.88	3.74	3.73	3.70	3.66	3.65	0.0078	0.0080	0.0082	0.0088	0.0092	0.0099
4.0	0.102	1067x2	3.61	3.44	3.44	3.42	3.39	3.37	0.0083	0.0085	0.0086	0.0090	0.0094	0.0101
4.0	0.102	106x2	3.51	3.33	3.34	3.32	3.28	3.27	0.0085	0.0086	0.0087	0.0091	0.0095	0.0102
4.5	0.114	2116x1	3.99	3.86	3.85	3.81	3.78	3.76	0.0076	0.0078	0.0081	0.0087	0.0091	0.0098
4.5	0.114	3313x1	3.78	3.63	3.63	3.60	3.56	3.55	0.0080	0.0081	0.0084	0.0089	0.0093	0.0100
5.0	0.127	2116x1	3.90	3.77	3.76	3.72	3.69	3.67	0.0078	0.0079	0.0082	0.0088	0.0092	0.0099
5.0	0.127	1078x2	3.80	3.66	3.65	3.62	3.59	3.57	0.0080	0.0081	0.0083	0.0088	0.0092	0.0099
5.0	0.127	1080x2	3.80	3.66	3.65	3.62	3.59	3.57	0.0080	0.0081	0.0083	0.0088	0.0092	0.0099
6.0	0.152	1078x2	3.68	3.52	3.52	3.50	3.46	3.45	0.0082	0.0083	0.0085	0.0089	0.0093	0.0100
6.0	0.152	1080x2	3.68	3.52	3.52	3.50	3.46	3.45	0.0082	0.0083	0.0085	0.0089	0.0093	0.0100
7.0	0.178	3313x2	4.00	3.88	3.87	3.82	3.79	3.78	0.0076	0.0077	0.0081	0.0087	0.0091	0.0098
8.0	0.203	3313x2	3.88	3.74	3.73	3.70	3.66	3.65	0.0078	0.0080	0.0082	0.0088	0.0092	0.0099
10.0	0.254	2116x2	3.90	3.77	3.76	3.72	3.69	3.67	0.0078	0.0079	0.0082	0.0088	0.0092	0.0099
15.0	0.381	2116X3	3.90	3.77	3.76	3.72	3.69	3.67	0.0078	0.0079	0.0082	0.0088	0.0092	0.0099
21.0	0.533	2116X4	3.86	3.72	3.71	3.68	3.64	3.63	0.0079	0.0080	0.0083	0.0088	0.0092	0.0099
24.0	0.610	2116X5	3.93	3.80	3.79	3.76	3.72	3.71	0.0077	0.0079	0.0082	0.0087	0.0091	0.0098
28.0	0.711	2116x6	3.95	3.82	3.81	3.77	3.74	3.73	0.0077	0.0078	0.0082	0.0087	0.0091	0.0098

Thin core None Standard Construction List

Nominal Thickness		Standard Construction	Dk@						Df@					
(mils)	(mm)		1GHz	2GHz	5GHz	10GHz	15GHz	20GHz	1GHz	2GHz	5GHz	10GHz	15GHz	20GHz
3.5	0.09	1037x2	3.56	3.38	3.39	3.37	3.33	3.32	0.0084	0.0085	0.0087	0.0091	0.0094	0.0101
3.5	0.09	2113x1	3.95	3.82	3.81	3.77	3.74	3.73	0.0077	0.0078	0.0082	0.0087	0.0091	0.0098
4.0	0.10	2113x1	3.83	3.69	3.68	3.65	3.61	3.60	0.0079	0.0081	0.0083	0.0088	0.0092	0.0099
7.0	0.18	2113x2	3.95	3.82	3.81	3.77	3.74	3.73	0.0077	0.0078	0.0082	0.0087	0.0091	0.0098
8.0	0.20	2113x2	3.83	3.69	3.68	3.65	3.61	3.60	0.0079	0.0081	0.0083	0.0088	0.0092	0.0099

GHz: Measured by SPC Method

TU-87P SLK Typical Dk/Df Value

Prepreg Standard Construction List

Nominal Thickness		Prepreg type	RC (%)	Dk@						Df@					
(mil)	(mm)			1GHz	2GHz	5GHz	10GHz	15GHz	20GHz	1GHz	2GHz	5GHz	10GHz	15GHz	20GHz
2.5	0.064	1067	72	3.48	3.30	3.31	3.29	3.26	3.25	0.0086	0.0087	0.0088	0.0091	0.0095	0.0102
2.5	0.064	106	76	3.38	3.19	3.21	3.19	3.16	3.15	0.0088	0.0088	0.0089	0.0092	0.0096	0.0103
3.0	0.076	1078	64	3.68	3.52	3.52	3.50	3.46	3.45	0.0082	0.0083	0.0085	0.0089	0.0093	0.0100
3.0	0.076	1080	64	3.68	3.52	3.52	3.50	3.46	3.45	0.0082	0.0083	0.0085	0.0089	0.0093	0.0100
3.5	0.089	1078	69	3.56	3.38	3.39	3.37	3.33	3.32	0.0084	0.0085	0.0087	0.0091	0.0094	0.0101
3.5	0.089	1080	69	3.56	3.38	3.39	3.37	3.33	3.32	0.0084	0.0085	0.0087	0.0091	0.0094	0.0101
3.5	0.089	3313	51	4.00	3.88	3.87	3.82	3.79	3.78	0.0076	0.0077	0.0081	0.0087	0.0091	0.0098
4.0	0.102	3313	56	3.88	3.74	3.73	3.70	3.66	3.65	0.0078	0.0080	0.0082	0.0088	0.0092	0.0099
4.5	0.114	3313	60	3.78	3.63	3.63	3.60	3.56	3.55	0.0080	0.0081	0.0084	0.0089	0.0093	0.0100
5.0	0.127	2116	55	3.90	3.77	3.76	3.72	3.69	3.67	0.0078	0.0079	0.0082	0.0088	0.0092	0.0099
5.5	0.140	2116	59	3.80	3.66	3.65	3.62	3.59	3.57	0.0080	0.0081	0.0083	0.0088	0.0092	0.0099

Prepreg None Standard Construction List

Nominal Thickness		Prepreg type	RC (%)	Dk@						Df@					
(mil)	(mm)			1GHz	2GHz	5GHz	10GHz	15GHz	20GHz	1GHz	2GHz	5GHz	10GHz	15GHz	20GHz
2.0	0.05	1037	72	3.48	3.30	3.31	3.29	3.26	3.25	0.0086	0.0087	0.0088	0.0091	0.0095	0.0102
2.0	0.05	1067	67	3.61	3.44	3.44	3.42	3.39	3.37	0.0083	0.0085	0.0086	0.0090	0.0094	0.0101
2.0	0.05	106	71	3.51	3.33	3.34	3.32	3.28	3.27	0.0085	0.0086	0.0087	0.0091	0.0095	0.0102
2.5	0.06	1080	59	3.80	3.66	3.65	3.62	3.59	3.57	0.0080	0.0081	0.0083	0.0088	0.0092	0.0099
4.0	0.10	2113	58	3.83	3.69	3.68	3.65	3.61	3.60	0.0079	0.0081	0.0083	0.0088	0.0092	0.0099
4.5	0.11	2113	62	3.73	3.58	3.58	3.55	3.51	3.50	0.0081	0.0082	0.0084	0.0089	0.0093	0.0100
6.0	0.15	1652	52	3.98	3.85	3.84	3.80	3.76	3.75	0.0076	0.0078	0.0081	0.0087	0.0091	0.0098

GHz: Measured by SPC Method