



TU-872 LK Typical Dk/Df Value

Thin core Standard Construction List

Nominal Thickness		Standard Construction	RC (%)	Remarks	Dk@					Df@				
(mils)	(mm)				1MHz	1GHz	2GHz	5GHz	10GHz	1MHz	1GHz	2GHz	5GHz	10GHz
2.0	0.05	1067x1	67	premium, better DS	3.83	3.61	3.44	3.44	3.42	0.0077	0.0083	0.0085	0.0086	0.0090
2.0	0.05	106x1	71	1st choice	3.75	3.51	3.33	3.34	3.32	0.0079	0.0085	0.0086	0.0087	0.0091
2.5	0.06	1067x1	72	premium, better DS	3.73	3.48	3.30	3.31	3.29	0.0079	0.0086	0.0087	0.0088	0.0091
2.5	0.06	1080x1	59	1st choice	4.01	3.80	3.66	3.65	3.62	0.0074	0.0080	0.0081	0.0083	0.0088
3.0	0.08	1078x1	64	premium, better DS	3.90	3.68	3.52	3.52	3.50	0.0076	0.0082	0.0083	0.0085	0.0089
3.0	0.08	1080x1	64	1st choice	3.90	3.68	3.52	3.52	3.50	0.0076	0.0082	0.0083	0.0085	0.0089
3.5	0.09	3313x1	51	1st choice	4.18	4.00	3.88	3.87	3.82	0.0071	0.0076	0.0077	0.0081	0.0087
4.0	0.10	3313x1	56	1st choice	4.07	3.88	3.74	3.73	3.70	0.0073	0.0078	0.0080	0.0082	0.0088
4.0	0.10	1067x2	67	premium, better DS	3.83	3.61	3.44	3.44	3.42	0.0077	0.0083	0.0085	0.0086	0.0090
4.0	0.10	106x2	71	2nd choice	3.75	3.51	3.33	3.34	3.32	0.0079	0.0085	0.0086	0.0087	0.0091
4.5	0.11	2116x1	52	1st choice	4.17	3.99	3.86	3.85	3.81	0.0071	0.0076	0.0078	0.0081	0.0087
4.5	0.11	3313x1	60	2nd choice	3.98	3.78	3.63	3.63	3.60	0.0074	0.0080	0.0081	0.0084	0.0089
5.0	0.13	2116x1	55	1st choice	4.09	3.90	3.77	3.76	3.72	0.0072	0.0078	0.0079	0.0082	0.0088
5.0	0.13	1078x2	59	1st choice	4.01	3.80	3.66	3.65	3.62	0.0074	0.0080	0.0081	0.0083	0.0088
5.0	0.13	1080x2	59	2nd choice	4.01	3.80	3.66	3.65	3.62	0.0074	0.0080	0.0081	0.0083	0.0088
6.0	0.15	1078x2	64	1st choice	3.90	3.68	3.52	3.52	3.50	0.0076	0.0082	0.0083	0.0085	0.0089
6.0	0.15	1080x2	64	2nd choice	3.90	3.68	3.52	3.52	3.50	0.0076	0.0082	0.0083	0.0085	0.0089
7.0	0.18	3313x2	51	1st choice	4.18	4.00	3.88	3.87	3.82	0.0071	0.0076	0.0077	0.0081	0.0087
8.0	0.20	3313x2	56	1st choice	4.07	3.88	3.74	3.73	3.70	0.0073	0.0078	0.0080	0.0082	0.0088
10.0	0.25	2116x2	55	1st choice	4.09	3.90	3.77	3.76	3.72	0.0072	0.0078	0.0079	0.0082	0.0088
15.0	0.38	2116X3	55	1st choice	4.09	3.90	3.77	3.76	3.72	0.0072	0.0078	0.0079	0.0082	0.0088
21.0	0.53	2116X4	57	1st choice	4.05	3.86	3.72	3.71	3.68	0.0073	0.0079	0.0080	0.0083	0.0088
24.0	0.61	2116X5	54	1st choice	4.12	3.93	3.80	3.79	3.76	0.0072	0.0077	0.0079	0.0082	0.0087
28.0	0.71	2116x6	53	1st choice	4.13	3.95	3.82	3.81	3.77	0.0071	0.0077	0.0078	0.0082	0.0087

Thin core None Standard Construction List

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(mils)	(mm)				1MHz	1GHz	2GHz	5GHz	10GHz	1MHz	1GHz	2GHz	5GHz	10GHz
3.5	0.09	1037x2	69	specific customer only	3.79	3.56	3.38	3.39	3.37	0.0078	0.0084	0.0085	0.0087	0.0091
3.5	0.09	2113x1	53	specific customer only	4.13	3.95	3.82	3.81	3.77	0.0071	0.0077	0.0078	0.0082	0.0087
4.0	0.10	2113x1	58	specific customer only	4.03	3.83	3.69	3.68	3.65	0.0073	0.0079	0.0081	0.0083	0.0088
7.0	0.18	2113x2	53	specific customer only	4.13	3.95	3.82	3.81	3.77	0.0071	0.0077	0.0078	0.0082	0.0087
8.0	0.20	2113x2	58	specific customer only	4.03	3.83	3.69	3.68	3.65	0.0073	0.0079	0.0081	0.0083	0.0088

1 MHz: Measured by LCR Meter

GHz: Measured by SPC Method





TU-87P LK Typical Dk/Df Value

Prepreg Standard Construction List

Nominal Thickness		Prepreg type	RC (%)	Remarks	Dk@					Df@				
(mils)	(mm)				1MHz	1GHz	2GHz	5GHz	10GHz	1MHz	1GHz	2GHz	5GHz	10GHz
2.5	0.06	1067	72	premium, better DS	3.73	3.48	3.30	3.31	3.29	0.0079	0.0086	0.0087	0.0088	0.0091
2.5	0.06	106	76	1st choice	3.64	3.38	3.19	3.21	3.19	0.0081	0.0088	0.0088	0.0089	0.0092
3.0	0.08	1078	64	premium, better DS	3.90	3.68	3.52	3.52	3.50	0.0076	0.0082	0.0083	0.0085	0.0089
3.0	0.08	1080	64	1st choice	3.90	3.68	3.52	3.52	3.50	0.0076	0.0082	0.0083	0.0085	0.0089
3.5	0.09	1078	69	premium, better DS	3.79	3.56	3.38	3.39	3.37	0.0078	0.0084	0.0085	0.0087	0.0091
3.5	0.09	1080	69	1st choice	3.79	3.56	3.38	3.39	3.37	0.0078	0.0084	0.0085	0.0087	0.0091
3.5	0.09	3313	51	2nd choice	4.18	4.00	3.88	3.87	3.82	0.0071	0.0076	0.0077	0.0081	0.0087
4.0	0.10	3313	56	1st choice	4.07	3.88	3.74	3.73	3.70	0.0073	0.0078	0.0080	0.0082	0.0088
4.5	0.11	3313	60	1st choice	3.98	3.78	3.63	3.63	3.60	0.0074	0.0080	0.0081	0.0084	0.0089
5.0	0.13	2116	55	1st choice	4.09	3.90	3.77	3.76	3.72	0.0072	0.0078	0.0079	0.0082	0.0088
5.5	0.14	2116	59	1st choice	4.01	3.80	3.66	3.65	3.62	0.0074	0.0080	0.0081	0.0083	0.0088

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(mils)	(mm)				1MHz	1GHz	2GHz	5GHz	10GHz	1MHz	1GHz	2GHz	5GHz	10GHz
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2.0	0.05	1067	67	premium, better DS	3.83	3.61	3.44	3.44	3.42	0.0077	0.0083	0.0085	0.0086	0.0090
2.0	0.05	106	71	1st choice	3.75	3.51	3.33	3.34	3.32	0.0079	0.0085	0.0086	0.0087	0.0091
2.5	0.06	1080	59	2nd choice	4.01	3.80	3.66	3.65	3.62	0.0074	0.0080	0.0081	0.0083	0.0088
4.0	0.10	2113	58	2nd choice	4.03	3.83	3.69	3.68	3.65	0.0073	0.0079	0.0081	0.0083	0.0088
4.5	0.11	2113	62	2nd choice	3.94	3.73	3.58	3.58	3.55	0.0075	0.0081	0.0082	0.0084	0.0089
6.0	0.15	1652	52	specific customer only	4.16	3.98	3.85	3.84	3.80	0.0071	0.0076	0.0078	0.0081	0.0087

1 MHz: Measured by LCR Meter

GHz: Measured by SPC Method

