



TU-862HF Typical Dk/Df Value

Thin core Standard Construction List

Typical Thickness (mil)	Mean Thickness (mil)	Tolerance (+/-)	Construction	Average R/C(%)	Dk@					Df@					Copper
					1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	
2	2	0.5	106x1	70.5	4.22	3.91	3.90	3.88	3.79	0.0137	0.0167	0.0169	0.0175	0.0185	不限
		0.5	1067x1	66.1	4.29	4.03	4.02	4.00	3.92	0.0130	0.0160	0.0162	0.0168	0.0178	不限
2.5	2.5	0.5	1067x1	71.9	4.20	3.87	3.87	3.84	3.76	0.0139	0.0169	0.0171	0.0177	0.0187	不限
3	3	0.5	1080x1	64.3	4.33	4.08	4.07	4.05	3.97	0.0128	0.0157	0.0159	0.0165	0.0175	不限
		0.5	1086x1	60.2	4.39	4.19	4.18	4.16	4.08	0.0122	0.0151	0.0153	0.0159	0.0169	不限
3.5	3.5	0.5	2113x1	52.6	4.52	4.39	4.38	4.36	4.29	0.0110	0.0139	0.0141	0.0147	0.0157	不限
		0.5	1037x2	69.9	4.23	3.93	3.92	3.90	3.81	0.0136	0.0166	0.0168	0.0174	0.0184	不限
		0.5	3313x1	50.0	4.57	4.46	4.46	4.43	4.37	0.0106	0.0134	0.0136	0.0142	0.0152	不限
4	4	0.5	2113x1	57.1	4.45	4.27	4.27	4.24	4.17	0.0117	0.0146	0.0148	0.0154	0.0164	不限
		0.5	106x2	70.5	4.22	3.91	3.90	3.88	3.79	0.0137	0.0167	0.0169	0.0175	0.0185	不限
		0.5	3313x1	54.9	4.48	4.33	4.32	4.30	4.23	0.0114	0.0142	0.0144	0.0150	0.0160	不限
		0.5	1067x2	66.1	4.29	4.03	4.02	4.00	3.92	0.0130	0.0160	0.0162	0.0168	0.0178	不限
4	4.2	0.5	2116x1	47.6	4.61	4.52	4.52	4.49	4.43	0.0103	0.0131	0.0133	0.0139	0.0149	不限
4.5	4.5	0.5	2116x1	50.9	4.55	4.44	4.43	4.41	4.34	0.0108	0.0136	0.0138	0.0144	0.0154	不限
5	5	0.7	2116x1	56.2	4.46	4.29	4.29	4.26	4.19	0.0116	0.0144	0.0146	0.0152	0.0162	不限
		0.7	1080x2	59.6	4.41	4.20	4.20	4.17	4.10	0.0121	0.0150	0.0152	0.0158	0.0168	不限
		0.7	1067x2	71.9	4.20	3.87	3.87	3.84	3.76	0.0139	0.0169	0.0171	0.0177	0.0187	不限
5.5	5.5	0.7	1652x1	47.7	4.61	4.52	4.52	4.49	4.43	0.0103	0.0131	0.0133	0.0139	0.0149	不限
		0.7	1080x2	60.8	4.39	4.17	4.17	4.14	4.07	0.0123	0.0152	0.0154	0.0160	0.0170	不限
6	6.2	0.7	1506x1	43.7	4.68	4.63	4.63	4.60	4.54	0.0097	0.0124	0.0126	0.0132	0.0142	不限
6	6	0.7	1652x1	50.9	4.55	4.44	4.43	4.41	4.34	0.0108	0.0136	0.0138	0.0144	0.0154	不限
		0.7	1080x2	64.3	4.33	4.08	4.07	4.05	3.97	0.0128	0.0157	0.0159	0.0165	0.0175	不限
		0.7	1086x2	60.2	4.39	4.19	4.18	4.16	4.08	0.0122	0.0151	0.0153	0.0159	0.0169	不限
		0.7	1078x2	64.3	4.33	4.08	4.07	4.05	3.97	0.0128	0.0157	0.0159	0.0165	0.0175	不限
6.5	6.5	0.7	1506x1	47.6	4.61	4.53	4.52	4.50	4.44	0.0103	0.0130	0.0132	0.0138	0.0148	不限
7	7	1.0	2113x2	52.6	4.52	4.39	4.38	4.36	4.29	0.0110	0.0139	0.0141	0.0147	0.0157	不限





Typical Thickness (mil)	Mean Thickness (mil)	Tolerance (+/-)	Construction	Average R/C (%)	Dk@					Df@					Copper
					1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	
7	7.2	1.0	7628x1	42.4	4.70	4.67	4.66	4.64	4.58	0.0095	0.0122	0.0124	0.0130	0.0140	不限
7.5	7.5	1.0	7628x1	43.0	4.69	4.65	4.65	4.62	4.56	0.0096	0.0123	0.0125	0.0131	0.0141	不限
8	8	1.0	7628x1	45.9	4.64	4.57	4.57	4.54	4.48	0.0100	0.0128	0.0130	0.0136	0.0146	不限
		1.0	2113x2	57.1	4.45	4.27	4.27	4.24	4.17	0.0117	0.0146	0.0148	0.0154	0.0164	不限
8	8.2	1.0	2116x2	47.6	4.61	4.52	4.52	4.49	4.43	0.0103	0.0131	0.0133	0.0139	0.0149	不限
9	9	1.0	2116x2	50.9	4.55	4.44	4.43	4.41	4.34	0.0108	0.0136	0.0138	0.0144	0.0154	不限
10	10	1.0	2116x2	56.2	4.46	4.29	4.29	4.26	4.19	0.0116	0.0144	0.0146	0.0152	0.0162	不限
11	11	1.0	1652x2	47.7	4.61	4.52	4.52	4.49	4.43	0.0103	0.0131	0.0133	0.0139	0.0149	不限
12	12.2	1.5	1506x2	43.7	4.68	4.63	4.63	4.60	4.54	0.0097	0.0124	0.0126	0.0132	0.0142	不限
13	13	1.5	1506x2	47.6	4.61	4.53	4.52	4.50	4.44	0.0103	0.0130	0.0132	0.0138	0.0148	不限
14	14	1.5	2116x3	49.8	4.57	4.47	4.46	4.44	4.37	0.0106	0.0134	0.0136	0.0142	0.0152	不限
14	14.2	1.5	7628x2	42.4	4.70	4.67	4.66	4.64	4.58	0.0095	0.0122	0.0124	0.0130	0.0140	不限
15	15	1.5	7628x2	43.0	4.69	4.65	4.65	4.62	4.56	0.0096	0.0123	0.0125	0.0131	0.0141	不限
16	16	1.5	7628x2	45.9	4.64	4.57	4.57	4.54	4.48	0.0100	0.0128	0.0130	0.0136	0.0146	不限
18	18	1.5	7628x2+1080x1	46.3	4.63	4.56	4.55	4.53	4.47	0.0101	0.0128	0.0130	0.0136	0.0146	不限
20	20	2.0	7628x2+2116x1	46.1	4.63	4.57	4.56	4.54	4.48	0.0101	0.0128	0.0130	0.0136	0.0146	不限
21	21.2	2.0	7628x3	42.4	4.70	4.67	4.66	4.64	4.58	0.0095	0.0122	0.0124	0.0130	0.0140	不限
23	23	2.0	7628x3	44.8	4.66	4.60	4.60	4.57	4.51	0.0099	0.0126	0.0128	0.0134	0.0144	不限
24	24	2.0	7628x3	45.9	4.64	4.57	4.57	4.54	4.48	0.0100	0.0128	0.0130	0.0136	0.0146	不限
		2.0	7628x2+2116x2	46.2	4.63	4.56	4.56	4.53	4.47	0.0101	0.0128	0.0130	0.0136	0.0146	不限
25	25	2.0	7628x2+2116x2	46.1	4.63	4.57	4.56	4.54	4.48	0.0101	0.0128	0.0130	0.0136	0.0146	不限
26	26	2.0	7628x2+1506x2	43.1	4.68	4.65	4.64	4.62	4.56	0.0096	0.0123	0.0125	0.0131	0.0141	不限
28	28.2	2.0	7628x4	42.4	4.70	4.67	4.66	4.64	4.58	0.0095	0.0122	0.0124	0.0130	0.0140	不限
31	31	3	7628x4	43.7	4.68	4.63	4.63	4.60	4.54	0.0097	0.0124	0.0126	0.0132	0.0142	H/H
39	39	3	7628x5	43.0	4.69	4.65	4.65	4.62	4.56	0.0096	0.0123	0.0125	0.0131	0.0141	H/1
39	39	3	7628x5	43.7	4.68	4.63	4.63	4.60	4.54	0.0097	0.0124	0.0126	0.0132	0.0142	H/H
50	50	5	7628x7	40.9	4.72	4.71	4.70	4.68	4.62	0.0093	0.0120	0.0122	0.0128	0.0138	1/1
50	50	5	7628x7	42.4	4.70	4.67	4.66	4.64	4.58	0.0095	0.0122	0.0124	0.0130	0.0140	H/H
51	51	5	7628x7	41.8	4.71	4.68	4.68	4.65	4.60	0.0094	0.0121	0.0123	0.0129	0.0139	1/1





Typical Thickness (mil)	Mean Thickness (mil)	Tolerance (+/-)	Construction	Average R/C(%)	Dk@					Df@					Copper
					1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	
56	56	5	7628x8	41.1	4.72	4.70	4.70	4.67	4.62	0.0093	0.0120	0.0122	0.0128	0.0138	H/H
56	56	5	7628x7	44.8	4.66	4.60	4.60	4.57	4.51	0.0099	0.0126	0.0128	0.0134	0.0144	1/1
58	58	5	7628x8	41.8	4.71	4.68	4.68	4.65	4.60	0.0094	0.0121	0.0123	0.0129	0.0139	1/1
59	59	5	7628x8	42.1	4.70	4.67	4.67	4.64	4.59	0.0095	0.0122	0.0124	0.0130	0.0140	H/H
59	59	5	7628x8	42.4	4.70	4.67	4.66	4.64	4.58	0.0095	0.0122	0.0124	0.0130	0.0140	1/1
60	60	5	7628x8	43.0	4.69	4.65	4.65	4.62	4.56	0.0096	0.0123	0.0125	0.0131	0.0141	H/H
62	62	5	7628x8	43.7	4.68	4.63	4.63	4.60	4.54	0.0097	0.0124	0.0126	0.0132	0.0142	1/1

備註：1、厚度 $\leq 28\text{mil}$ 为不含铜厚度， $> 28\text{mil}$ 为含铜厚度

2、由於廠內板厚規格眾多，以上僅為廠內常用規格，若有其他規格需求，另請單獨提出。





TU-86PHF Typical Dk/Df Value

Prepreg Standard Construction List

PP Type	R/C (%)	Press Thickness (100%殘銅 mil)		Dk@					Df@				
		Mean	Tolerance (+/-)	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz
7628	46.0	7.9	0.8	4.63	4.56	4.53	4.50	4.47	0.0105	0.0128	0.0130	0.0136	0.0146
	48.0	8.3	1.1	4.60	4.50	4.48	4.44	4.42	0.0106	0.0130	0.0132	0.0138	0.0148
	50.0	8.7	1.1	4.56	4.45	4.42	4.39	4.36	0.0111	0.0135	0.0137	0.0143	0.0153
1506	48.0	6.5	0.7	4.60	4.50	4.48	4.44	4.42	0.0106	0.0130	0.0132	0.0138	0.0148
	50.0	6.9	0.7	4.56	4.45	4.42	4.39	4.36	0.0111	0.0135	0.0137	0.0143	0.0153
1652	54.0	6.4	0.6	4.50	4.34	4.31	4.28	4.25	0.0116	0.0140	0.0142	0.0148	0.0158
	56.0	6.7	0.7	4.46	4.28	4.26	4.22	4.19	0.0119	0.0143	0.0145	0.0151	0.0161
	58.0	7.1	0.7	4.43	4.23	4.20	4.16	4.14	0.0125	0.0148	0.0150	0.0156	0.0166
2116	52.0	4.5	0.5	4.53	4.39	4.37	4.33	4.31	0.0115	0.0138	0.0140	0.0146	0.0156
	55.0	5.0	0.5	4.48	4.31	4.28	4.25	4.22	0.0120	0.0143	0.0145	0.0151	0.0161
	58.0	5.4	0.5	4.43	4.23	4.20	4.16	4.14	0.0125	0.0148	0.0150	0.0156	0.0166
	60.0	5.7	0.6	4.39	4.17	4.15	4.11	4.08	0.0128	0.0151	0.0153	0.0159	0.0169
3313	55.0	4.0	0.4	4.48	4.31	4.28	4.25	4.22	0.0120	0.0143	0.0145	0.0151	0.0161
	57.0	4.2	0.4	4.45	4.26	4.23	4.19	4.17	0.0123	0.0146	0.0148	0.0154	0.0164
	59.0	4.4	0.4	4.41	4.20	4.18	4.14	4.11	0.0127	0.0150	0.0152	0.0158	0.0168
2113	58.0	4.0	0.4	4.43	4.23	4.20	4.16	4.14	0.0125	0.0148	0.0150	0.0156	0.0166
	61.0	4.4	0.4	4.37	4.13	4.11	4.07	4.04	0.0127	0.0151	0.0153	0.0159	0.0169
1080	63.0	2.9	0.3	4.34	4.09	4.06	4.03	4.00	0.0133	0.0156	0.0158	0.0164	0.0174
	65.0	3.1	0.3	4.31	4.04	4.02	3.98	3.95	0.0133	0.0157	0.0159	0.0165	0.0175
	67.0	3.3	0.3	4.27	3.98	3.95	3.91	3.88	0.0139	0.0163	0.0165	0.0171	0.0181
	70.0	3.6	0.4	4.22	3.90	3.87	3.83	3.80	0.0141	0.0165	0.0167	0.0173	0.0183
106	74.0	2.2	0.4	4.15	3.79	3.76	3.72	3.69	0.0148	0.0172	0.0174	0.0180	0.0190
	76.0	2.4	0.4	4.12	3.74	3.70	3.66	3.63	0.0151	0.0175	0.0177	0.0183	0.0193
1086	63.0	3.2	0.3	4.34	4.09	4.06	4.03	4.00	0.0133	0.0156	0.0158	0.0164	0.0174





PP Type	R/C (%)	Press Thickness (100%殘銅 mil)		Dk@					Df@				
		Mean	Tolerance (+/-)	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz	1M Hz	1G Hz	2G Hz	5G Hz	10G Hz
1086	67.0	3.6	0.4	4.27	3.98	3.95	3.91	3.88	0.0139	0.0163	0.0165	0.0171	0.0181
1067	71.0	2.4	0.3	4.20	3.87	3.84	3.80	3.77	0.0143	0.0167	0.0169	0.0175	0.0185
	76.0	3.0	0.4	4.12	3.74	3.70	3.66	3.63	0.0151	0.0175	0.0177	0.0183	0.0193
1078	64.0	3.0	0.3	4.32	4.06	4.04	4.00	3.97	0.0134	0.0158	0.0160	0.0166	0.0176
	68.0	3.4	0.3	4.26	3.96	3.93	3.89	3.86	0.0140	0.0164	0.0166	0.0172	0.0182
1037	66.0	1.6	0.3	4.29	4.01	3.98	3.94	3.91	0.0135	0.0159	0.0161	0.0167	0.0177

備註：以上僅為廠內常用規格，若有其他規格需求，另請單獨提出

