

TU-943HN Typical Dk/Df Value

Laminate Standard Construction List

Nominal Thickness		Standard Construction	RC (%)	Dk@										Df@									
(mils)	(mm)			1GHz	3GHz	5GHz	10GHz	20GHz	30GHz	40GHz	50GHz	60GHz	1GHz	3GHz	5GHz	10GHz	20GHz	30GHz	40GHz	50GHz	60GHz		
2.0	0.051	1035x1	68	3.21	3.20	3.20	3.18	3.18	3.17	3.17	3.17	3.17	0.0011	0.0011	0.0012	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023		
2.5	0.064	1035x1	73	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022		
3.0	0.076	1035x1	77	3.11	3.11	3.10	3.08	3.08	3.08	3.07	3.07	3.07	0.0009	0.0009	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022		
3.0	0.076	1078x1	65	3.24	3.24	3.23	3.21	3.21	3.20	3.20	3.20	3.20	0.0011	0.0012	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022	0.0024		
3.5	0.089	1078x1	70	3.19	3.18	3.18	3.16	3.16	3.15	3.15	3.15	3.15	0.0010	0.0011	0.0011	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023		
4.0	0.102	1078x1	73	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022		
4.0	0.102	1035x2	68	3.21	3.20	3.20	3.18	3.18	3.17	3.17	3.17	3.17	0.0011	0.0011	0.0012	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023		
4.5	0.114	1035x2	70	3.19	3.18	3.18	3.16	3.16	3.15	3.15	3.15	3.15	0.0010	0.0011	0.0011	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023		
5.0	0.127	1035x2	73	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022		
6.0	0.152	1035x2	77	3.11	3.11	3.10	3.08	3.08	3.08	3.07	3.07	3.07	0.0009	0.0009	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022		
6.0	0.152	1078x2	65	3.24	3.24	3.23	3.21	3.21	3.20	3.20	3.20	3.20	0.0011	0.0012	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022	0.0024		
7.0	0.178	1078x2	70	3.19	3.18	3.18	3.16	3.16	3.15	3.15	3.15	3.15	0.0010	0.0011	0.0011	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023		
8.0	0.203	1078x2	73	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022		
10.0	0.254	2116x2	57	3.33	3.32	3.32	3.30	3.30	3.29	3.29	3.29	3.29	0.0013	0.0013	0.0014	0.0015	0.0017	0.0019	0.0021	0.0023	0.0025		
15.0	0.381	2116X3	57	3.33	3.32	3.32	3.30	3.30	3.29	3.29	3.29	3.29	0.0013	0.0013	0.0014	0.0015	0.0017	0.0019	0.0021	0.0023	0.0025		

Test method (5G below by SPDR IPC-TM650 2.5.5.15, 10G up by SCR IPC-TM650 2.5.5.13)

The newly developed products are slightly modified and updated after more data has been collected.

The electric performance and characteristics shown in the table is for reference only.
For incoming inspection, please refer to the consigned contract between TUC and customer.

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TU-943P HN Typical Dk/Df Value

Prepreg Standard Construction List

Prepreg type	RC (%)	Thickness (for reference)		Dk@									Df@								
		(mils)	(mm)	1GHz	3GHz	5GHz	10GHz	20GHz	30GHz	40GHz	50GHz	60GHz	1GHz	3GHz	5GHz	10GHz	20GHz	30GHz	40GHz	50GHz	60GHz
1035	70	2.3	0.058	3.19	3.18	3.18	3.16	3.16	3.15	3.15	3.15	3.15	0.0010	0.0011	0.0011	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023
1035	73	2.5	0.064	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022
1035	77	3.0	0.076	3.11	3.11	3.10	3.08	3.08	3.08	3.07	3.07	3.07	0.0009	0.0009	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022
1078	65	3.0	0.076	3.24	3.24	3.23	3.21	3.21	3.20	3.20	3.20	3.20	0.0011	0.0012	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022	0.0024
1080	65	3.0	0.076	3.24	3.24	3.23	3.21	3.21	3.20	3.20	3.20	3.20	0.0011	0.0012	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022	0.0024
1078	70	3.5	0.089	3.19	3.18	3.18	3.16	3.16	3.15	3.15	3.15	3.15	0.0010	0.0011	0.0011	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023
1080	70	3.5	0.089	3.19	3.18	3.18	3.16	3.16	3.15	3.15	3.15	3.15	0.0010	0.0011	0.0011	0.0013	0.0015	0.0017	0.0019	0.0021	0.0023
1078	73	4.0	0.102	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022
1080	73	4.0	0.102	3.16	3.15	3.14	3.13	3.13	3.12	3.12	3.12	3.11	0.0010	0.0010	0.0011	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022
2113	57	4.0	0.102	3.33	3.32	3.32	3.30	3.30	3.29	3.29	3.29	3.29	0.0013	0.0013	0.0014	0.0015	0.0017	0.0019	0.0021	0.0023	0.0025
2113	61	4.5	0.114	3.29	3.28	3.27	3.26	3.25	3.25	3.25	3.25	3.24	0.0012	0.0013	0.0013	0.0014	0.0016	0.0018	0.0020	0.0022	0.0024
2116	57	5.0	0.127	3.33	3.32	3.32	3.30	3.30	3.29	3.29	3.29	3.29	0.0013	0.0013	0.0014	0.0015	0.0017	0.0019	0.0021	0.0023	0.0025
2116	60	5.5	0.140	3.30	3.29	3.28	3.27	3.27	3.26	3.26	3.26	3.25	0.0012	0.0013	0.0013	0.0014	0.0016	0.0018	0.0020	0.0022	0.0024

Prepreg Optional Construction List Upon Request

Prepreg type	RC (%)	Thickness (for reference)		Dk@									Df@								
		(mils)	(mm)	1GHz	3GHz	5GHz	10GHz	20GHz	30GHz	40GHz	50GHz	60GHz	1GHz	3GHz	5GHz	10GHz	20GHz	30GHz	40GHz	50GHz	60GHz
1080	77	4.9	0.124	3.11	3.11	3.10	3.08	3.08	3.08	3.07	3.07	3.07	0.0009	0.0009	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022
1078	77	4.9	0.124	3.11	3.11	3.10	3.08	3.08	3.08	3.07	3.07	3.07	0.0009	0.0009	0.0010	0.0012	0.0014	0.0016	0.0018	0.0020	0.0022

Test method (5G below by SPDR IPC-TM650 2.5.5.15, 10G up by SCR IPC-TM650 2.5.5.13)

Note

2023.05 Preliminary
2023.10 Up to 60GHz

The newly developed products are slightly modified and updated after more data has been collected.

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