

Technical Service Dept.

【 】 Testing & Analysis 【V】 Technical Support 【 】 Others



TU-943SR 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	3.19	3.18	3.16	3.15	3.14	3.14	3.13	0.0011	0.0011	0.0012	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
2.5	0.064	1035x1	74	3.14	3.14	3.13	3.11	3.09	3.08	3.08	3.07	3.07	0.0010	0.0010	0.0011	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
3.0	0.076	1035x1	78	3.10	3.09	3.09	3.07	3.05	3.04	3.03	3.03	3.02	0.0009	0.0009	0.0010	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
3.0	0.076	1078x1	66	3.23	3.22	3.21	3.20	3.18	3.17	3.16	3.16	3.15	0.0011	0.0012	0.0012	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
3.5	0.089	1078x1	70	3.18	3.18	3.17	3.16	3.14	3.13	3.12	3.12	3.11	0.0010	0.0011	0.0011	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
4.0	0.102	1078x1	74	3.14	3.14	3.13	3.11	3.09	3.08	3.08	3.07	3.07	0.0010	0.0010	0.0011	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
4.0	0.102	1035x2	68	3.21	3.20	3.19	3.18	3.16	3.15	3.14	3.14	3.13	0.0011	0.0011	0.0012	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
4.5	0.114	1035x2	71	3.17	3.17	3.16	3.15	3.13	3.12	3.11	3.10	3.10	0.0010	0.0011	0.0011	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
5.0	0.127	1035x2	74	3.14	3.14	3.13	3.11	3.09	3.08	3.08	3.07	3.07	0.0010	0.0010	0.0011	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
6.0	0.152	1035x2	78	3.10	3.09	3.09	3.07	3.05	3.04	3.03	3.03	3.02	0.0009	0.0009	0.0010	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
6.0	0.152	1078x2	66	3.23	3.22	3.21	3.20	3.18	3.17	3.16	3.16	3.15	0.0011	0.0012	0.0012	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
7.0	0.178	1078x2	70	3.18	3.18	3.17	3.16	3.14	3.13	3.12	3.12	3.11	0.0010	0.0011	0.0011	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
10.0	0.254	1078x3	69	3.20	3.19	3.18	3.17	3.15	3.14	3.13	3.13	3.12	0.0011	0.0011	0.0012	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		

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



Technical Service Dept.

【 】 Testing & Analysis 【V】 Technical Support 【 】 Others



2 of 2

TU-943P SR 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	71	2.3	0.058	3.17	3.17	3.16	3.15	3.13	3.12	3.11	3.10	3.10	0.0010	0.0011	0.0011	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
1035	74	2.5	0.064	3.14	3.14	3.13	3.11	3.09	3.08	3.08	3.07	3.07	0.0010	0.0010	0.0011	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
1035	78	3.0	0.076	3.10	3.09	3.09	3.07	3.05	3.04	3.03	3.03	3.02	0.0009	0.0009	0.0010	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
1078	66	3.0	0.076	3.23	3.22	3.21	3.20	3.18	3.17	3.16	3.16	3.15	0.0011	0.0012	0.0012	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
1078	70	3.5	0.089	3.18	3.18	3.17	3.16	3.14	3.13	3.12	3.12	3.11	0.0010	0.0011	0.0011	0.0013	0.0016	0.0017	0.0019	0.0021	0.0023		
1078	74	4.0	0.102	3.14	3.14	3.13	3.11	3.09	3.08	3.08	3.07	3.07	0.0010	0.0010	0.0011	0.0012	0.0015	0.0016	0.0018	0.0020	0.0022		
1078	76	4.5	0.114	3.12	3.11	3.11	3.09	3.07	3.06	3.06	3.05	3.05	0.0009	0.0010	0.0010	0.0012	0.0015	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)



KF2311003A

Taiwan Union Technology Corporation (TUC)

TUC Taiwan +886 3 555 1103 . TUC Changshu, China +86 512 5230 1688 . TUC Zhongshan, China +86 760 2813 6688

Copyright © 2023 Taiwan Union Technology Corporation

The electric performance shown in the table is for reference only, please refer to the consigned contract for incoming inspection.