



# KB-6165F/KB-6065F Line up Electrical Properties

## 1) CORE (KB-6165F)

Thickness (mil)±10%	Thickness (mm)±10%	Layup	Dk±0.2				Df±10%			
			1GHz	2GHz	5GHz	10GHz	1GHz	2GHz	5GHz	10GHz
2.0	0.051	106×1	4.1	4.0	3.9	3.9	0.017	0.017	0.018	0.019
2.5	0.064	1067×1	4.1	4.1	4.0	3.9	0.017	0.017	0.018	0.019
3.0	0.076	1080×1	4.2	4.2	4.1	4.0	0.020	0.022	0.023	0.023
3.5	0.089	3313×1	4.5	4.4	4.4	4.3	0.015	0.015	0.016	0.017
4.0	0.102	2116×1	4.6	4.5	4.5	4.4	0.017	0.018	0.019	0.019
4.5	0.114	2116×1	4.5	4.5	4.4	4.3	0.015	0.015	0.016	0.017
5.0	0.127	2165×1	4.6	4.5	4.4	4.4	0.015	0.015	0.016	0.017
5.5	0.140	1506*1	4.7	4.6	4.6	4.5	0.014	0.014	0.015	0.016
6.0	0.152	1506*1	4.6	4.6	4.5	4.4	0.014	0.014	0.015	0.016
7.5	0.191	7628*1	4.6	4.6	4.5	4.5	0.014	0.014	0.015	0.016
8.0	0.203	7628*1	4.6	4.5	4.4	4.4	0.015	0.015	0.016	0.017
10.0	0.254	2165*2	4.5	4.5	4.4	4.4	0.015	0.015	0.016	0.017
12.0	0.305	1506×2	4.7	4.6	4.6	4.5	0.014	0.014	0.015	0.016
15.0	0.381	7628*2	4.8	4.8	4.7	4.6	0.015	0.016	0.016	0.017
18.0	0.457	7628×2+1080×1	4.6	4.5	4.5	4.4	0.014	0.015	0.016	0.017
21.0	0.533	7628*3	4.7	4.6	4.6	4.5	0.014	0.014	0.015	0.016
25.0	0.635	7628*3	4.5	4.5	4.4	4.4	0.015	0.015	0.016	0.017
30.0	0.762	7628*4	4.8	4.7	4.7	4.6	0.015	0.015	0.016	0.016
35.0	0.889	7628*5	4.7	4.6	4.6	4.5	0.014	0.014	0.015	0.016
40.0	1.016	7628*5	4.7	4.7	4.6	4.5	0.015	0.016	0.016	0.017
47.0	1.194	7628*6	4.7	4.6	4.5	4.5	0.014	0.014	0.015	0.016
59.0	1.499	7628*8	4.8	4.7	4.7	4.6	0.014	0.015	0.016	0.017



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## 2) PREPREG (KB-6065F)

Glass style	Thickness (mil) ±10%	Thickness (mm) ±10%	RC%	Dk±0.2				Df±10%			
				1GHz	2GHz	5GHz	10GHz	1GHz	2GHz	5GHz	10GHz
106	1.80	0.046	68	4.1	4.1	4.0	3.9	0.017	0.017	0.018	0.019
	1.90	0.048	70	4.0	4.0	3.9	3.9	0.017	0.018	0.018	0.019
	2.10	0.053	72	3.9	3.9	3.8	3.8	0.018	0.018	0.019	0.019
1067	2.20	0.056	68	4.1	4.0	4.0	3.9	0.017	0.017	0.018	0.019
	2.40	0.061	70	4.0	4.0	3.9	3.9	0.017	0.017	0.018	0.019
	2.60	0.066	72	4.0	4.0	3.9	3.9	0.017	0.018	0.018	0.019
1080/1078	2.90	0.074	63	4.3	4.2	4.2	4.1	0.016	0.016	0.017	0.018
	3.10	0.079	65	4.2	4.2	4.1	4.0	0.017	0.017	0.018	0.018
	3.40	0.086	68	4.2	4.1	4.0	4.0	0.017	0.017	0.018	0.019
1086	3.30	0.084	64	4.3	4.2	4.1	4.1	0.016	0.016	0.017	0.018
	3.50	0.089	66	4.3	4.2	4.1	4.1	0.016	0.016	0.017	0.018
	3.80	0.097	68	4.2	4.2	4.1	4.0	0.016	0.016	0.017	0.018
3313	3.40	0.086	50	4.5	4.4	4.4	4.3	0.015	0.015	0.016	0.017
	3.50	0.089	52	4.4	4.4	4.3	4.3	0.015	0.015	0.016	0.017
	3.70	0.094	54	4.4	4.3	4.2	4.2	0.016	0.016	0.017	0.018
2116	4.60	0.117	52	4.5	4.4	4.4	4.3	0.015	0.015	0.016	0.017
	4.80	0.122	54	4.5	4.4	4.3	4.3	0.016	0.015	0.016	0.017
	5.10	0.130	56	4.4	4.4	4.3	4.2	0.016	0.015	0.016	0.017
2165	5.30	0.135	52	4.6	4.6	4.5	4.5	0.015	0.015	0.016	0.017
	5.80	0.147	55	4.6	4.5	4.5	4.4	0.016	0.016	0.016	0.017
	6.30	0.160	58	4.5	4.5	4.5	4.4	0.016	0.016	0.016	0.017
1506	6.50	0.165	48	4.7	4.6	4.5	4.5	0.014	0.014	0.015	0.016
	6.80	0.173	50	4.6	4.6	4.5	4.4	0.015	0.015	0.016	0.016
	7.10	0.180	52	4.6	4.5	4.4	4.4	0.015	0.015	0.016	0.017
7628	8.30	0.211	48	4.7	4.6	4.5	4.5	0.014	0.014	0.015	0.016
	8.70	0.221	50	4.6	4.5	4.5	4.4	0.015	0.015	0.016	0.017
	9.20	0.234	52	4.6	4.5	4.4	4.4	0.015	0.015	0.016	0.017