



PI-618G/PP-PI618G Line up Electrical Properties

1) CORE (PI-618G)

Thickness (mil)	Thickness (mm)	Layup	Dk±0.2				Df±10%			
			1GHz	2GHz	5GHz	10GHz	1GHz	2GHz	5GHz	10GHz
2.0	0.051	106×1	3.61	3.56	3.51	3.46	0.007	0.009	0.009	0.010
2.0	0.051	1067×1	3.74	3.69	3.64	3.59	0.007	0.009	0.009	0.010
2.5	0.064	1067×1	3.61	3.56	3.51	3.46	0.007	0.009	0.009	0.010
2.5	0.064	1078×1	3.95	3.90	3.85	3.80	0.007	0.008	0.009	0.010
3.0	0.076	1080×1	3.82	3.77	3.72	3.67	0.007	0.008	0.009	0.010
3.0	0.076	1086×1	3.90	3.85	3.80	3.75	0.007	0.008	0.009	0.010
3.5	0.089	3313×1	4.13	4.08	4.03	3.98	0.007	0.008	0.009	0.010
3.5	0.089	1086×1	3.77	3.72	3.67	3.62	0.007	0.009	0.009	0.010
4.0	0.102	3313×1	4.00	3.95	3.90	3.85	0.007	0.008	0.009	0.010
4.0	0.102	2116×1	4.26	4.21	4.16	4.11	0.007	0.008	0.009	0.010
4.0	0.102	106×2	3.61	3.56	3.51	3.46	0.007	0.009	0.009	0.010
4.5	0.114	2116×1	4.13	4.08	4.03	3.98	0.007	0.008	0.009	0.010
4.5	0.114	106×2	3.54	3.49	3.44	3.39	0.007	0.009	0.009	0.010
5.0	0.127	2116×1	4.00	3.95	3.90	3.85	0.007	0.008	0.009	0.010
5.0	0.127	1067×2	3.61	3.56	3.51	3.46	0.007	0.009	0.009	0.010
5.0	0.127	1080×2	3.95	3.90	3.85	3.80	0.007	0.008	0.009	0.010
6.0	0.152	1506×1	4.29	4.24	4.19	4.14	0.007	0.008	0.009	0.010
6.0	0.152	1080×2	3.82	3.77	3.72	3.67	0.007	0.008	0.009	0.010
7.0	0.178	7628×1	4.37	4.32	4.27	4.22	0.007	0.008	0.009	0.010
7.0	0.178	3313×2	4.13	4.08	4.03	3.98	0.007	0.008	0.009	0.010
8.0	0.203	7628×1	4.29	4.24	4.19	4.14	0.007	0.008	0.009	0.010
8.0	0.203	3313×2	4.00	3.95	3.90	3.85	0.007	0.008	0.009	0.010
10.0	0.254	2116×2	4.06	4.01	3.96	3.91	0.007	0.008	0.009	0.010
12.0	0.305	1506×2	4.29	4.24	4.19	4.14	0.007	0.008	0.009	0.010
15.0	0.38	7628×2	4.34	4.29	4.24	4.19	0.007	0.008	0.009	0.010



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			1GHz	2GHz	5GHz	10GHz	1GHz	2GHz	5GHz	10GHz
18.0	0.457	7628×2+1080×1	4.29	4.24	4.19	4.14	0.007	0.008	0.009	0.010
25.0	0.635	7628×3	4.26	4.21	4.16	4.11	0.007	0.008	0.009	0.010
30.0	0.762	7628×4	4.34	4.29	4.24	4.19	0.007	0.008	0.009	0.010
35.0	0.889	7628×5	4.42	4.37	4.32	4.27	0.007	0.008	0.009	0.010
40.0	1.016	7628×5	4.29	4.24	4.19	4.14	0.007	0.008	0.009	0.010
59.0	1.50	7628×8	4.42	4.37	4.32	4.27	0.007	0.008	0.009	0.010



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Electrical Properties

2) PREPREG (PP-PI618G)

Glass style	Thickness (mil)	Thickness (mm)	RC%	Dk±0.2				Df±10%			
				1GHz	2GHz	5GHz	10GHz	1GHz	2GHz	5GHz	10GHz
1027	1.50	0.038	70	3.74	3.69	3.61	3.56	0.007	0.009	0.009	0.010
	1.70	0.043	73	3.66	3.61	3.53	3.48	0.007	0.009	0.009	0.010
	1.94	0.049	76	3.58	3.53	3.45	3.40	0.007	0.009	0.009	0.010
1037	1.84	0.047	70	3.74	3.69	3.61	3.56	0.007	0.009	0.009	0.010
	2.08	0.053	73	3.66	3.61	3.53	3.48	0.007	0.009	0.009	0.010
	2.37	0.060	76	3.58	3.53	3.45	3.40	0.007	0.009	0.009	0.010
106	1.98	0.050	70	3.74	3.69	3.61	3.56	0.007	0.009	0.009	0.010
	2.24	0.057	73	3.66	3.61	3.53	3.48	0.007	0.009	0.009	0.010
	2.56	0.065	76	3.58	3.53	3.45	3.40	0.007	0.009	0.009	0.010
1067	2.38	0.060	70	3.74	3.69	3.61	3.56	0.007	0.009	0.009	0.010
	2.69	0.068	73	3.66	3.61	3.53	3.48	0.007	0.009	0.009	0.010
	3.07	0.078	76	3.58	3.53	3.45	3.40	0.007	0.009	0.009	0.010
1078	3.06	0.078	64	3.90	3.85	3.77	3.72	0.007	0.009	0.009	0.010
	3.40	0.086	67	3.82	3.77	3.69	3.64	0.007	0.009	0.009	0.010
	3.79	0.096	70	3.74	3.69	3.61	3.56	0.007	0.009	0.009	0.010
1080	2.90	0.074	63	3.92	3.87	3.79	3.74	0.007	0.008	0.009	0.010
	3.21	0.082	66	3.84	3.79	3.71	3.66	0.007	0.009	0.009	0.010
	3.58	0.091	69	3.77	3.72	3.64	3.59	0.007	0.009	0.009	0.010
3313	3.84	0.098	54	4.16	4.11	4.03	3.98	0.007	0.008	0.009	0.010
	4.06	0.103	56	4.10	4.05	3.97	3.92	0.007	0.008	0.009	0.010
	4.31	0.109	58	4.05	4.00	3.92	3.87	0.007	0.008	0.009	0.010
2116	4.98	0.126	54	4.16	4.11	4.03	3.98	0.007	0.008	0.009	0.010
	5.42	0.138	57	4.08	4.03	3.95	3.90	0.007	0.008	0.009	0.010
	5.93	0.151	60	4.00	3.95	3.87	3.82	0.007	0.008	0.009	0.010
7628	7.91	0.201	45	4.39	4.34	4.26	4.21	0.007	0.008	0.009	0.010
	8.52	0.216	48	4.31	4.26	4.18	4.13	0.007	0.008	0.009	0.010