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IT-602GTC/IT-602GBS Electrical Properties

High Tg,Halogen Free,Very Low Loss Laminate & Prepreg

Core IT-602GTC

Laminate				Dk					Df				
Imperial units Thickness (in)	Metric system Thickness (mm)	Standard Constructions	Resin Content (%)	1 GHz	2 GHz	5 GHz	10 GHz	20GHz	1 GHz	2 GHz	5 GHz	10 GHz	20 GHz
0.0020	0.051	1037x1	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
0.0020	0.051	1067x1	66.0	3.70	3.69	3.60	3.57	3.54	0.0047	0.0048	0.0056	0.0061	0.0068
0.0023	0.058	1067x1	70.0	3.60	3.59	3.50	3.47	3.44	0.0047	0.0048	0.0056	0.0061	0.0068
0.0025	0.064	1067x1	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
0.0030	0.076	1037x2	65.0	3.72	3.71	3.63	3.60	3.57	0.0047	0.0048	0.0056	0.0061	0.0068
0.0030	0.076	1078x1	65.0	3.72	3.71	3.63	3.60	3.57	0.0047	0.0048	0.0056	0.0061	0.0068
0.0035	0.089	3313*1	53.0	4.02	4.01	3.93	3.90	3.87	0.0046	0.0047	0.0054	0.0060	0.0067
0.0040	0.102	1035x2	68.0	3.65	3.64	3.55	3.52	3.49	0.0047	0.0048	0.0056	0.0061	0.0068
0.0040	0.102	3313x1	58.0	3.90	3.89	3.80	3.77	3.74	0.0046	0.0047	0.0055	0.0060	0.0067
0.0045	0.114	3313x1	62.0	3.80	3.79	3.70	3.67	3.64	0.0047	0.0048	0.0055	0.0060	0.0067
0.0045	0.114	2116x1	53.0	4.02	4.01	3.93	3.90	3.87	0.0046	0.0047	0.0054	0.0060	0.0067
0.0050	0.127	1078x2	60.0	3.85	3.84	3.75	3.72	3.69	0.0046	0.0047	0.0055	0.0060	0.0067
0.0050	0.127	2116x1	57.0	3.92	3.91	3.83	3.80	3.77	0.0046	0.0047	0.0055	0.0060	0.0067
0.0060	0.152	1078x2	65.0	3.72	3.71	3.63	3.60	3.57	0.0047	0.0048	0.0056	0.0061	0.0068
0.0060	0.152	1080x2	66.0	3.70	3.69	3.60	3.57	3.54	0.0047	0.0048	0.0056	0.0061	0.0068
0.0080	0.203	3313x2	58.0	3.90	3.89	3.80	3.77	3.74	0.0046	0.0047	0.0055	0.0060	0.0067
0.0100	0.254	2116x2	57.0	3.92	3.91	3.83	3.80	3.77	0.0046	0.0047	0.0055	0.0060	0.0067
0.0120	0.305	3313x3	58.0	3.90	3.89	3.80	3.77	3.74	0.0046	0.0047	0.0055	0.0060	0.0067

Prepreg IT-602GBS

Laminated Prepreg				Dk					Df				
Prepreq Type	Thickness (mil)	Thickness (mm)	Resin Content (%)	1 GHz	2 GHz	5 GHz	10 GHz	20GHz	1 GHz	2 GHz	5 GHz	10 GHz	20 GHz
2116	4.8	0.122	55.0	3.97	3.96	3.88	3.85	3.82	0.0046	0.0047	0.0055	0.0060	0.0067
	5.0	0.127	57.0	3.92	3.91	3.83	3.80	3.77	0.0046	0.0047	0.0055	0.0060	0.0067
	5.3	0.135	59.0	3.87	3.86	3.78	3.75	3.72	0.0046	0.0047	0.0055	0.0060	0.0067
3313	3.7	0.094	55.0	3.97	3.96	3.88	3.85	3.82	0.0046	0.0047	0.0055	0.0060	0.0067
	3.9	0.099	57.0	3.92	3.91	3.83	3.80	3.77	0.0046	0.0047	0.0055	0.0060	0.0067
	4.2	0.107	59.0	3.87	3.86	3.78	3.75	3.72	0.0046	0.0047	0.0055	0.0060	0.0067
1080	2.9	0.074	65.0	3.72	3.71	3.63	3.60	3.57	0.0047	0.0048	0.0056	0.0061	0.0068
	3.1	0.079	67.0	3.67	3.66	3.58	3.55	3.52	0.0047	0.0048	0.0056	0.0061	0.0068
	3.4	0.086	69.0	3.62	3.61	3.53	3.50	3.47	0.0047	0.0048	0.0056	0.0061	0.0068
	3.6	0.092	71.0	3.57	3.56	3.48	3.45	3.42	0.0047	0.0048	0.0056	0.0061	0.0068
1078	2.9	0.074	64.0	3.75	3.74	3.65	3.62	3.59	0.0047	0.0048	0.0055	0.0061	0.0068
	3.1	0.079	66.0	3.70	3.69	3.60	3.57	3.54	0.0047	0.0048	0.0056	0.0061	0.0068
	3.3	0.084	68.0	3.65	3.64	3.55	3.52	3.49	0.0047	0.0048	0.0056	0.0061	0.0068
	3.5	0.089	70.0	3.60	3.59	3.50	3.47	3.44	0.0047	0.0048	0.0056	0.0061	0.0068
	3.8	0.097	72.0	3.55	3.54	3.45	3.42	3.39	0.0047	0.0048	0.0056	0.0061	0.0068
1067	2.1	0.053	69.0	3.62	3.61	3.53	3.50	3.47	0.0047	0.0048	0.0056	0.0061	0.0068
	2.3	0.058	71.0	3.57	3.56	3.48	3.45	3.42	0.0047	0.0048	0.0056	0.0061	0.0068
	2.5	0.064	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
	2.7	0.069	75.0	3.47	3.46	3.38	3.35	3.32	0.0048	0.0049	0.0057	0.0061	0.0068
106	2.1	0.053	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
	2.5	0.064	77.0	3.42	3.41	3.33	3.30	3.27	0.0048	0.0049	0.0057	0.0061	0.0068
1035	2.2	0.056	71.0	3.57	3.56	3.48	3.45	3.42	0.0047	0.0048	0.0056	0.0061	0.0068
	2.4	0.061	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
	2.6	0.066	75.0	3.47	3.46	3.38	3.35	3.32	0.0048	0.0049	0.0057	0.0061	0.0068
	2.9	0.074	77.0	3.42	3.41	3.33	3.30	3.27	0.0048	0.0049	0.0057	0.0061	0.0068
	3.2	0.081	79.0	3.37	3.36	3.28	3.25	3.22	0.0048	0.0049	0.0057	0.0061	0.0068
	3.6	0.091	81.0	3.32	3.31	3.23	3.20	3.17	0.0048	0.0049	0.0057	0.0061	0.0068
1037	1.9	0.048	71.0	3.57	3.56	3.48	3.45	3.42	0.0047	0.0048	0.0056	0.0061	0.0068
	2.0	0.051	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
	2.2	0.056	75.0	3.47	3.46	3.38	3.35	3.32	0.0048	0.0049	0.0057	0.0061	0.0068
1027	1.4	0.036	69.0	3.62	3.61	3.53	3.50	3.47	0.0047	0.0048	0.0056	0.0061	0.0068
	1.5	0.038	71.0	3.57	3.56	3.48	3.45	3.42	0.0047	0.0048	0.0056	0.0061	0.0068
	1.7	0.043	73.0	3.52	3.51	3.43	3.40	3.37	0.0048	0.0049	0.0056	0.0061	0.0068
	1.8	0.046	75.0	3.47	3.46	3.38	3.35	3.32	0.0048	0.0049	0.0057	0.0061	0.0068
1017	1.1	0.028	75.0	3.47	3.46	3.38	3.35	3.32	0.0048	0.0049	0.0057	0.0061	0.0068
	1.2	0.030	77.0	3.42	3.41	3.33	3.30	3.27	0.0048	0.0049	0.0057	0.0061	0.0068
	1.4	0.036	79.0	3.37	3.36	3.28	3.25	3.22	0.0048	0.0049	0.0057	0.0061	0.0068
	1.5	0.038	81.0	3.32	3.31	3.23	3.20	3.17	0.0048	0.0049	0.0057	0.0061	0.0068

Test methods: 1 GHz by RF impedance/material analyzer HP4291B(IPC 2.5.5.9)
2 GHz, 5 GHz, 10 GHz, 15 GHz, 20 GHz, 30 GHz by Resonator Cavity

The above data and fabrication guide provide designers and PCB shop for their reference. We truly believe that these information are accurate, moreover, test methods and specification must be consider interiorly. The effective sale is in accordance with the specification, and ITEQ maintains the authority of revision to keep the best suitability for users.