Panasonic
INDUSTRY

Data Sheet

Ultra-low transmission loss Highly heat resistant Multi-layer circuit board materials

MEGTRON6

Laminate R-5775
Prepreg R-5670

Any letters with parentheses ( ) at the end of a part number are for identification code in our company and are not included in the part numbers registered for UL certification.

Jun. 2026 No.260630

Partnering to go beyond.

Electronic Materials
Panasonic Industry

Specification / Laminate R-5775

Property			Units	Test Method	Condition	Typical Value
THERMAL	Glass Transition Temp (Tg)		C	DSC	As received	185
				DMA	As received	210
	Thermal Decomposition Temp (Td)		C	TGA	As received	410
	Time to Delam (T288)	Without Cu	Min	IPC TM-650 2.4.24.1	As received	> 120
		With Cu	Min	IPC TM-650 2.4.24.1	As received	> 120
	CTE : α1	X - axis	ppm / C	IPC TM-650 2.4.24	< Tg	14 - 16
		Y - axis	ppm / C	IPC TM-650 2.4.24	< Tg	14 - 16
		Z - axis	ppm / C	IPC TM-650 2.4.24	< Tg	45
	CTE : α2	Z - axis	ppm / C	IPC TM-650 2.4.24	> Tg	260
ELECTRICAL	Volume Resistivity		MΩ - cm	IPC TM-650 2.5.17.1	C-96/35/90	1×10^{9}
	Surface Resistivity		MΩ	IPC TM-650 2.5.17.1	C-96/35/90	1×10^{8}
	Dielectric Constant (Dk)	@ 1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	3.71
		@ 13GHz	-	*Note 1	C-24/23/50	3.62
	Dissipation Factor (Df)	@ 1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	0.002
		@ 13GHz	-	*Note 1	C-24/23/50	0.0046
PHYSICAL	Water Absorption		%	IPC TM-650 2.6.2.1	D-24/23	0.14
	Peel Strength	1oz (H-VLP)	kN / m	IPC TM-650 2.4.8	As received	0.8
	Flammability		-	UL	C-48/23/50	94V-0

Sample thickness : 29.5 mil = 0.750 mm (Core Type 30)

Note 1 : Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Laminate R-5775(K)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Type	Actual Thickness		Cloth Style	ply	Typical Resin Content (%)	Typical Dk										
	mil	mm				1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
2	2.0	0.050	1035	1	65	3.46	3.39	3.38	3.38	3.38	3.37	3.39	3.39	3.39	3.39	3.39
2.6	2.6	0.065	1080	1	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
2.6	2.6	0.065	1078	1	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
3	3.0	0.075	1078	1	63	3.49	3.42	3.41	3.40	3.40	3.39	3.43	3.43	3.43	3.43	3.43
3.5	3.5	0.090	1078	1	68	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
4	3.9	0.100	3313	1	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
4	3.9	0.100	1035	2	65	3.46	3.39	3.38	3.38	3.38	3.37	3.39	3.39	3.39	3.39	3.39
5	5.0	0.127	1078	2	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
5	4.9	0.125	2116	1	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
5	5.1	0.130	1080	2	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
6	5.7	0.146	1078	2	63	3.49	3.42	3.41	3.40	3.40	3.39	3.43	3.43	3.43	3.43	3.43
6	5.9	0.150	1080	2	63	3.49	3.42	3.41	3.40	3.40	3.39	3.43	3.43	3.43	3.43	3.43
7	7.0	0.178	1078	2	68	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
8	7.9	0.200	3313	2	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
10	9.8	0.250	2116	2	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
12	11.8	0.300	3313	3	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
16	15.7	0.400	3313	4	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
20	19.7	0.500	2116	4	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
25	24.6	0.625	2116	5	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
30	29.5	0.750	2116	6	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Laminate R-5775(K)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Type	Actual Thickness		Cloth Style	ply	Typical Resin Content (%)	Typical Df										
	mil	mm				1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
2	2.0	0.050	1035	1	65	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0056	0.0059
2.6	2.6	0.065	1080	1	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
2.6	2.6	0.065	1078	1	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
3	3.0	0.075	1078	1	63	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
3.5	3.5	0.090	1078	1	68	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
4	3.9	0.100	3313	1	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
4	3.9	0.100	1035	2	65	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0056	0.0059
5	5.0	0.127	1078	2	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
5	4.9	0.125	2116	1	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
5	5.1	0.130	1080	2	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
6	5.7	0.146	1078	2	63	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
6	5.9	0.150	1080	2	63	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
7	7.0	0.178	1078	2	68	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
8	7.9	0.200	3313	2	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
10	9.8	0.250	2116	2	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
12	11.8	0.300	3313	3	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
16	15.7	0.400	3313	4	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
20	19.7	0.500	2116	4	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
25	24.6	0.625	2116	5	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
30	29.5	0.750	2116	6	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Prepreg R-5670(K)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Style	Resin Content (%)	Typical Thickness (um)	Typical Dk										
			1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
1027	75	49	3.28	3.21	3.20	3.20	3.20	3.19	3.21	3.21	3.21	3.21	3.21
1035	70	60	3.35	3.25	3.25	3.24	3.24	3.23	3.29	3.29	3.29	3.29	3.29
	73	68	3.29	3.22	3.22	3.21	3.21	3.20	3.24	3.24	3.24	3.24	3.24
	75	74	3.28	3.21	3.20	3.20	3.20	3.19	3.21	3.21	3.21	3.21	3.21
1080	64	76	3.47	3.40	3.39	3.39	3.39	3.38	3.41	3.41	3.41	3.41	3.41
	68	87	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
1078	64	77	3.47	3.40	3.39	3.39	3.39	3.38	3.41	3.41	3.41	3.41	3.41
	68	89	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
	72	104	3.31	3.24	3.23	3.23	3.23	3.22	3.26	3.26	3.26	3.26	3.26
	75	118	3.28	3.21	3.20	3.20	3.20	3.19	3.21	3.21	3.21	3.21	3.21
3313	54	98	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
	57	106	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
2116	54	125	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
	56	132	3.67	3.60	3.59	3.58	3.58	3.57	3.58	3.58	3.58	3.58	3.58

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Prepreg R-5670(K)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Style	Resin Content (%)	Typical Thickness (um)	Typical Df										
			1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
1027	75	49	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0050	0.0052	0.0055
1035	70	60	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0051	0.0054	0.0057
	73	68	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0047	0.0050	0.0053	0.0056
	75	74	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0050	0.0052	0.0055
1080	64	76	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
	68	87	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
1078	64	77	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
	68	89	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
	72	104	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0047	0.0050	0.0053	0.0056
	75	118	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0050	0.0052	0.0055
3313	54	98	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
	57	106	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
2116	54	125	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
	56	132	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0064

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Laminate R-5775(G)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Type	Actual Thickness		Cloth Style	ply	Typical Resin Content (%)	Typical Dk										
	mil	mm				1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
2	2.0	0.050	1035	1	65	3.46	3.39	3.38	3.38	3.38	3.37	3.39	3.39	3.39	3.39	3.39
2.0	2.0	0.050	1067	1	64	3.47	3.40	3.39	3.39	3.39	3.38	3.41	3.41	3.41	3.41	3.41
2.6	2.6	0.065	1080	1	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
2.6	2.6	0.065	1078	1	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
3.0	3.0	0.075	1078	1	63	3.49	3.42	3.41	3.40	3.40	3.39	3.43	3.43	3.43	3.43	3.43
3.5	3.5	0.090	1078	1	68	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
4.0	3.9	0.100	3313	1	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
4	3.9	0.100	1035	2	65	3.46	3.39	3.38	3.38	3.38	3.37	3.39	3.39	3.39	3.39	3.39
5.0	5.0	0.127	1078	2	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
5	4.9	0.125	2116	1	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
5	5.1	0.130	1080	2	57	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
6	5.7	0.146	1078	2	63	3.49	3.42	3.41	3.40	3.40	3.39	3.43	3.43	3.43	3.43	3.43
6	5.9	0.150	1080	2	63	3.49	3.42	3.41	3.40	3.40	3.39	3.43	3.43	3.43	3.43	3.43
7	7.0	0.178	1078	2	68	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
8	7.9	0.200	3313	2	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
10	9.8	0.250	2116	2	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
12	11.8	0.300	3313	3	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
16	15.7	0.400	3313	4	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
20	19.7	0.500	2116	4	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
22	21.9	0.555	7628	3	42	4.07	4.00	3.97	3.96	3.95	3.95	3.94	3.94	3.94	3.94	3.94
25	24.6	0.625	2116	5	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
29	29.1	0.740	7628	4	42	4.07	4.00	3.97	3.96	3.95	3.95	3.94	3.94	3.94	3.94	3.94
30	29.5	0.750	2116	6	54	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
37	36.4	0.925	7628	5	42	4.07	4.00	3.97	3.96	3.95	3.95	3.94	3.94	3.94	3.94	3.94

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Laminate R-5775(G)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Type	Actual Thickness		Cloth Style	ply	Typical Resin Content (%)	Typical Df										
	mil	mm				1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
2	2.0	0.050	1035	1	65	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0056	0.0059
2.0	2.0	0.050	1067	1	64	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
2.6	2.6	0.065	1080	1	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
2.6	2.6	0.065	1078	1	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
3.0	3.0	0.075	1078	1	63	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
3.5	3.5	0.090	1078	1	68	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
4.0	3.9	0.100	3313	1	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
4	3.9	0.100	1035	2	65	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0056	0.0059
5.0	5.0	0.127	1078	2	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
5	4.9	0.125	2116	1	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
5	5.1	0.130	1080	2	57	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
6	5.7	0.146	1078	2	63	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
6	5.9	0.150	1080	2	63	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
7	7.0	0.178	1078	2	68	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
8	7.9	0.200	3313	2	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
10	9.8	0.250	2116	2	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
12	11.8	0.300	3313	3	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
16	15.7	0.400	3313	4	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
20	19.7	0.500	2116	4	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
22	21.9	0.555	7628	3	42	0.002	0.002	0.003	0.003	0.004	0.004	0.0049	0.0056	0.0062	0.0067	0.0072
25	24.6	0.625	2116	5	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
29	29.1	0.740	7628	4	42	0.002	0.002	0.003	0.003	0.004	0.004	0.0049	0.0056	0.0062	0.0067	0.0072
30	29.5	0.750	2116	6	54	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
37	36.4	0.925	7628	5	42	0.002	0.002	0.003	0.003	0.004	0.004	0.0049	0.0056	0.0062	0.0067	0.0072

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Prepreg R-5670(G)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Style	Resin Content (%)	Typical Thickness (um)	Typical Dk										
			1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
1027	75	49	3.28	3.21	3.20	3.20	3.20	3.19	3.21	3.21	3.21	3.21	3.21
1035	70	60	3.35	3.25	3.25	3.24	3.24	3.23	3.29	3.29	3.29	3.29	3.29
	73	68	3.29	3.22	3.22	3.21	3.21	3.20	3.24	3.24	3.24	3.24	3.24
	75	74	3.28	3.21	3.20	3.20	3.20	3.19	3.21	3.21	3.21	3.21	3.21
	77	79	3.25	3.19	3.18	3.18	3.18	3.17	3.18	3.18	3.18	3.18	3.18
1067	69	59	3.38	3.29	3.29	3.28	3.28	3.27	3.31	3.31	3.31	3.31	3.31
	72	67	3.31	3.24	3.23	3.23	3.23	3.22	3.26	3.26	3.26	3.26	3.26
	74	72	3.29	3.22	3.21	3.21	3.21	3.20	3.23	3.23	3.23	3.23	3.23
1080	64	76	3.47	3.40	3.39	3.39	3.39	3.38	3.41	3.41	3.41	3.41	3.41
	68	87	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
1078	64	77	3.47	3.40	3.39	3.39	3.39	3.38	3.41	3.41	3.41	3.41	3.41
	68	89	3.41	3.34	3.33	3.33	3.33	3.32	3.33	3.33	3.33	3.33	3.33
	72	104	3.31	3.24	3.23	3.23	3.23	3.22	3.26	3.26	3.26	3.26	3.26
	75	118	3.28	3.21	3.20	3.20	3.20	3.19	3.21	3.21	3.21	3.21	3.21
3313	54	98	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
	57	106	3.65	3.58	3.57	3.56	3.56	3.55	3.56	3.56	3.56	3.56	3.56
2116	54	125	3.71	3.64	3.63	3.63	3.62	3.61	3.62	3.62	3.62	3.62	3.62
	56	132	3.67	3.60	3.59	3.58	3.58	3.57	3.58	3.58	3.58	3.58	3.58

* The data in the above table represents typical values for your reference and are not guaranteed values.

Specification / Prepreg R-5670(G)

1GHz ; IPC TM650-2.5.5.9, 2-10GHz ; IPC TM650-2.5.5.5,
13-56GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Style	Resin Content (%)	Typical Thickness (um)	Typical Df										
			1 GHz	2 GHz	4 GHz	6 GHz	8 GHz	10 GHz	13 GHz	24 GHz	35 GHz	46 GHz	56 GHz
1027	75	49	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0050	0.0052	0.0055
1035	70	60	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0051	0.0054	0.0057
	73	68	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0047	0.0050	0.0053	0.0056
	75	74	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0050	0.0052	0.0055
	77	79	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0049	0.0052	0.0054
1067	69	59	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0051	0.0055	0.0057
	72	67	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0047	0.0050	0.0053	0.0056
	74	72	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0047	0.0050	0.0053	0.0055
1080	64	76	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
	68	87	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
1078	64	77	0.002	0.002	0.003	0.003	0.004	0.004	0.0044	0.0049	0.0053	0.0057	0.0060
	68	89	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0048	0.0052	0.0055	0.0058
	72	104	0.002	0.002	0.003	0.003	0.004	0.004	0.0043	0.0047	0.0050	0.0053	0.0056
	75	118	0.002	0.002	0.003	0.003	0.004	0.004	0.0042	0.0046	0.0050	0.0052	0.0055
3313	54	98	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
	57	106	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0063
2116	54	125	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0052	0.0057	0.0061	0.0065
	56	132	0.002	0.002	0.003	0.003	0.004	0.004	0.0046	0.0051	0.0056	0.0060	0.0064

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