

Data Sheet

High Speed, Low Loss Multi-layer Materials

MEGTRON4

Laminate R-5725
Prepreg R-5620

Apr. 2022 No.22040132

Specification / Laminate R-5725

Property			Units	Test Method	Condition	Typical Value
THERMAL	Glass Transition Temp (Tg)		C	DSC	As received	176
				TMA	As received	170
				DMA	As received	210
	Thermal Decomposition Temp (Td)		C	TGA	As received	360
	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	30
	CTE : $\alpha 1$	X - axis	ppm / C	IPC TM-650 2.4.24	< Tg	12 - 14
		Y - axis	ppm / C	IPC TM-650 2.4.24	< Tg	13 - 15
		Z - axis	ppm / C	IPC TM-650 2.4.24	< Tg	35
	CTE : $\alpha 2$	Z - axis	ppm / C	IPC TM-650 2.4.24	> Tg	265
ELECTRICAL	Volume Resistivity		M Ω - cm	IPC TM-650 2.5.17.1	C-96/35/90	1×10^9
	Surface Resistivity		M Ω	IPC TM-650 2.5.17.1	C-96/35/90	1×10^8
	Dielectric Constant (Dk)	@ 1MHz	-	IPC TM-650 2.5.5.9	C-24/23/50	3.89
		@ 1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	3.83
	Dissipation Factor (Df)	@ 1MHz	-	IPC TM-650 2.5.5.9	C-24/23/50	0.005
		@ 1GHz	-	IPC TM-650 2.5.5.9	C-24/23/50	0.005
PHYSICAL	Water Absorption		%	IPC TM-650 2.6.2.1	D-24/23	0.14
	Peel Strength	1oz	kN / m	IPC TM-650 2.4.8	As received	1.2
	Flammability		-	UL	C-48/23/50	94V-0

Sample thickness ; 32 mil (0.8 mm) #3313 × 8ply

* The data in the above table are not guaranteed values.

Specification / Laminate R-5725

1MHz - 1GHz ; IPC TM650-2.5.5.9

Core Type	Actual Thickness		Cloth Style	Typical Resin Content (%)	Typical Dk			Typical Df		
	mil	mm			1MHz	100MHz	1GHz	1MHz	100MHz	1GHz
2	2.0	0.050	106 X 1	72	3.39	3.39	3.38	0.005	0.005	0.006
2	2.0	0.050	1067 X 1	66	3.58	3.56	3.56	0.005	0.005	0.005
2.5	2.4	0.060	1080 X 1	59	3.82	3.79	3.77	0.005	0.005	0.005
3	3.1	0.080	1080 X 1	65	3.64	3.61	3.60	0.005	0.005	0.005
3.4	3.5	0.090	1078 X 1	68	3.54	3.50	3.47	0.005	0.005	0.006
3.5	3.5	0.090	106 X 2	69	3.51	3.48	3.46	0.005	0.005	0.006
3.5	3.5	0.090	3313 X 1	51	4.10	4.05	4.01	0.004	0.005	0.005
4	3.9	0.100	3313 X 1	57	3.89	3.85	3.83	0.005	0.005	0.005
4	3.9	0.100	1067 X 2	66	3.58	3.56	3.56	0.005	0.005	0.005
4.5	4.3	0.110	2116 X 1	51	4.10	4.05	4.01	0.004	0.005	0.005
4.7	4.7	0.120	1080 X 2	57	3.89	3.85	3.83	0.005	0.005	0.005
5	5.1	0.130	2116 X 1	56	3.93	3.88	3.86	0.005	0.005	0.005
5	5.1	0.130	1080 X 2	60	3.80	3.76	3.73	0.005	0.005	0.005
5	5.1	0.130	1078 X 2	59	3.82	3.79	3.77	0.005	0.005	0.005
5.5	5.5	0.140	1080 X 2	63	3.69	3.66	3.65	0.005	0.005	0.005
6	5.9	0.150	1080 X 2	65	3.64	3.61	3.60	0.005	0.005	0.005
6	5.9	0.150	1504 X 1	49	4.14	4.10	4.07	0.004	0.005	0.005
6	5.9	0.150	1078 X 2	65	3.64	3.61	3.60	0.005	0.005	0.005

* The data in the above table are not guaranteed values.

Specification / Laminate R-5725

1MHz - 1GHz ; IPC TM650-2.5.5.9

Core Type	Actual Thickness		Cloth Style	Typical Resin Content (%)	Typical Dk			Typical Df		
	mil	mm			1MHz	100MHz	1GHz	1MHz	100MHz	1GHz
7	7.1	0.180	3313 X 2	51	4.10	4.05	4.01	0.004	0.005	0.005
7	7.1	0.180	1067 X 3	70	3.47	3.46	3.45	0.005	0.005	0.006
7.5	7.5	0.190	7628 × 1	45	4.26	4.23	4.19	0.004	0.005	0.005
8	7.9	0.200	3313 × 2	57	3.89	3.85	3.83	0.005	0.005	0.005
8.0	7.9	0.200	2116 × 2	47	4.21	4.17	4.14	0.004	0.005	0.005
9.0	9.1	0.230	2116 × 2	52	4.05	4.01	3.98	0.005	0.005	0.005
10.0	9.8	0.250	2116 × 2	56	3.93	3.88	3.86	0.005	0.005	0.005
12.0	11.8	0.300	1504 × 2	49	4.14	4.10	4.07	0.004	0.005	0.005
15	15.0	0.380	7628 × 2	45	4.26	4.23	4.19	0.004	0.005	0.005
18	18.1	0.460	7628 × 2 + 3313 × 1	45	4.26	4.23	4.19	0.004	0.005	0.005
20.0	20.1	0.510	7628 × 2 + 1080 × 2	49	4.14	4.10	4.07	0.004	0.005	0.005
20.0	20.1	0.510	7628 × 2 + 2116 × 1	48	4.18	4.14	4.11	0.004	0.005	0.005
22	22.0	0.560	7628 × 3	44	4.29	4.26	4.22	0.004	0.005	0.005
24	24.0	0.610	7628 × 3	48	4.18	4.14	4.11	0.004	0.005	0.005
26	26.0	0.660	7628 × 3 + 2116 × 1	45	4.26	4.23	4.19	0.004	0.005	0.005
28.0	28.0	0.710	7628 × 4	42	4.36	4.33	4.29	0.004	0.005	0.005
31	31.1	0.790	7628 × 4	47	4.21	4.17	4.14	0.004	0.005	0.005
40	39.4	1.000	7628 × 5	47	4.21	4.17	4.14	0.004	0.005	0.005
47	47.2	1.200	7628 × 6	47	4.21	4.17	4.14	0.004	0.005	0.005

* The data in the above table are not guaranteed values.

Specification / Laminate R-5725

2GHz-10GHz ; IPC TM650-2.5.5.5

Core Type	Actual Thickness		Cloth Style	Typical Resin Content (%)	Typical Dk					Typical Df				
	mil	mm			2GHz	4GHz	6GHz	8GHz	10GHz	2GHz	4GHz	6GHz	8GHz	10GHz
2	2.0	0.050	106 X 1	72	3.38	3.37	3.37	3.37	3.37	0.006	0.006	0.007	0.008	0.008
2	2.0	0.050	1067 X 1	66	3.56	3.56	3.56	3.56	3.55	0.006	0.006	0.007	0.008	0.008
2.5	2.4	0.060	1080 X 1	59	3.76	3.76	3.75	3.75	3.74	0.006	0.006	0.006	0.007	0.007
3	3.1	0.080	1080 X 1	65	3.59	3.58	3.57	3.57	3.57	0.006	0.006	0.007	0.008	0.008
3	3.5	0.090	1078 X 1	68	3.47	3.46	3.45	3.45	3.45	0.006	0.006	0.007	0.008	0.008
4	3.5	0.090	106 X 2	69	3.46	3.44	3.44	3.44	3.44	0.006	0.006	0.007	0.008	0.008
4	3.5	0.090	3313 X 1	51	4.00	3.99	3.97	3.97	3.96	0.006	0.006	0.006	0.007	0.007
4	3.9	0.100	3313 X 1	57	3.82	3.82	3.81	3.80	3.80	0.006	0.006	0.006	0.007	0.007
4	3.9	0.100	1067 X 2	66	3.56	3.56	3.56	3.56	3.55	0.006	0.006	0.007	0.008	0.008
5	4.3	0.110	2116 X 1	51	4.00	3.99	3.97	3.97	3.96	0.006	0.006	0.006	0.007	0.007
5	4.7	0.120	1080 X 2	57	3.82	3.82	3.81	3.80	3.80	0.006	0.006	0.006	0.007	0.007
5	5.1	0.130	2116 X 1	56	3.85	3.85	3.84	3.83	3.83	0.006	0.006	0.006	0.007	0.007
5	5.1	0.130	1080 X 2	60	3.71	3.70	3.69	3.68	3.67	0.006	0.006	0.007	0.007	0.007
5	5.1	0.130	1078 X 2	59	3.76	3.76	3.75	3.75	3.74	0.006	0.006	0.006	0.007	0.007
6	5.5	0.140	1080 X 2	63	3.65	3.65	3.64	3.64	3.64	0.006	0.006	0.007	0.007	0.007
6	5.9	0.150	1080 X 2	65	3.59	3.58	3.57	3.57	3.57	0.006	0.006	0.007	0.008	0.008
6	5.9	0.150	1504 X 1	49	4.04	4.02	4.00	3.99	3.98	0.006	0.006	0.006	0.007	0.007
6	5.9	0.150	1078 X 2	65	3.59	3.58	3.57	3.57	3.57	0.006	0.006	0.007	0.008	0.008

* The data in the above table are not guaranteed values.

Specification / Laminate R-5725

2GHz-10GHz ; IPC TM650-2.5.5.5

Core Type	Actual Thickness		Cloth Style	Typical Resin Content (%)	Typical Dk					Typical Df				
	mil	mm			2GHz	4GHz	6GHz	8GHz	10GHz	2GHz	4GHz	6GHz	8GHz	10GHz
7	7.1	0.180	3313 X 2	51	4.00	3.99	3.97	3.97	3.96	0.006	0.006	0.006	0.007	0.007
7	7.1	0.180	1067 X 3	70	3.44	3.43	3.42	3.42	3.41	0.006	0.006	0.007	0.008	0.008
7.5	7.5	0.190	7628 × 1	45	4.16	4.13	4.11	4.10	4.09	0.006	0.006	0.006	0.007	0.007
8	7.9	0.200	3313 × 2	57	3.82	3.82	3.81	3.80	3.80	0.006	0.006	0.006	0.007	0.007
8	7.9	0.200	2116 × 2	47	4.10	4.08	4.06	4.05	4.04	0.006	0.006	0.006	0.007	0.007
9	9.1	0.230	2116 × 2	52	3.95	3.93	3.92	3.90	3.90	0.006	0.006	0.006	0.007	0.007
10	9.8	0.250	2116 × 2	56	3.85	3.85	3.84	3.83	3.83	0.006	0.006	0.006	0.007	0.007
12	11.8	0.300	1504 × 2	49	4.04	4.02	4.00	3.99	3.98	0.006	0.006	0.006	0.007	0.007
15	15.0	0.380	7628 × 2	45	4.16	4.13	4.11	4.10	4.09	0.006	0.006	0.006	0.007	0.007
18	18.1	0.460	7628 × 2 + 3313 × 1	45	4.16	4.13	4.11	4.10	4.09	0.006	0.006	0.006	0.007	0.007
20	20.1	0.510	7628 × 2 + 1080 × 2	49	4.04	4.02	4.00	3.99	3.98	0.006	0.006	0.006	0.007	0.007
20	20.1	0.510	7628 × 2 + 2116 × 1	48	4.08	4.05	4.04	4.02	4.01	0.006	0.006	0.006	0.007	0.007
22	22.0	0.560	7628 × 3	44	4.19	4.16	4.14	4.12	4.11	0.006	0.006	0.006	0.007	0.007
24	24.0	0.610	7628 × 3	48	4.08	4.05	4.04	4.02	4.01	0.006	0.006	0.006	0.007	0.007
26	26.0	0.660	7628 × 3 + 2116 × 1	45	4.16	4.13	4.11	4.10	4.09	0.006	0.006	0.006	0.007	0.007
28	28.0	0.710	7628 × 4	42	4.25	4.22	4.20	4.18	4.17	0.006	0.006	0.006	0.007	0.007
31	31.1	0.790	7628 × 4	47	4.10	4.08	4.06	4.05	4.04	0.006	0.006	0.006	0.007	0.007
40	39.4	1.000	7628 × 5	47	4.10	4.08	4.06	4.05	4.04	0.006	0.006	0.006	0.007	0.007
47	47.2	1.200	7628 × 6	47	4.10	4.08	4.06	4.05	4.04	0.006	0.006	0.006	0.007	0.007

* The data in the above table are not guaranteed values.

Specification / Laminate R-5725

13-55GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Type	Actual Thickness		Cloth Style	Typical Resin Content (%)	Typical Dk					Typical Df				
	mil	mm			13GHz	23GHz	34GHz	45GHz	55GHz	13GHz	23GHz	34GHz	45GHz	55GHz
2	2.0	0.050	106 X 1	72	3.36	3.36	3.36	3.36	3.36	0.0074	0.0078	0.0082	0.0086	0.0090
2	2.0	0.050	1067 X 1	66	3.48	3.48	3.48	3.48	3.48	0.0074	0.0078	0.0082	0.0086	0.0090
2.5	2.4	0.060	1080 X 1	59	3.63	3.63	3.63	3.63	3.63	0.0074	0.0078	0.0083	0.0087	0.0091
3	3.1	0.080	1080 X 1	65	3.50	3.50	3.50	3.50	3.50	0.0074	0.0078	0.0082	0.0086	0.0090
3	3.5	0.090	1078 X 1	68	3.44	3.44	3.44	3.44	3.44	0.0074	0.0078	0.0082	0.0086	0.0090
4	3.5	0.090	106 X 2	69	3.42	3.42	3.42	3.42	3.42	0.0074	0.0078	0.0082	0.0086	0.0090
4	3.5	0.090	3313 X 1	51	3.80	3.80	3.80	3.80	3.80	0.0074	0.0078	0.0083	0.0088	0.0092
4	3.9	0.100	3313 X 1	57	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
4	3.9	0.100	1067 X 2	66	3.48	3.48	3.48	3.48	3.48	0.0074	0.0078	0.0082	0.0086	0.0090
5	4.3	0.110	2116 X 1	51	3.80	3.80	3.80	3.80	3.80	0.0074	0.0078	0.0083	0.0088	0.0092
5	4.7	0.120	1080 X 2	57	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
5	5.1	0.130	2116 X 1	56	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
5	5.1	0.130	1080 X 2	60	3.61	3.61	3.61	3.61	3.61	0.0074	0.0078	0.0082	0.0087	0.0091
5	5.1	0.130	1078 X 2	59	3.63	3.63	3.63	3.63	3.63	0.0074	0.0078	0.0083	0.0087	0.0091
6	5.5	0.140	1080 X 2	63	3.54	3.54	3.54	3.54	3.54	0.0074	0.0078	0.0082	0.0087	0.0091
6	5.9	0.150	1080 X 2	65	3.50	3.50	3.50	3.50	3.50	0.0074	0.0078	0.0082	0.0086	0.0090
6	5.9	0.150	1504 X 1	49	3.85	3.85	3.85	3.85	3.85	0.0074	0.0079	0.0083	0.0088	0.0092
6	5.9	0.150	1078 X 2	65	3.50	3.50	3.50	3.50	3.50	0.0074	0.0078	0.0082	0.0086	0.0090

* The data in the above table are not guaranteed values.

Specification / Laminate R-5725

13-55GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Core Type	Actual Thickness		Cloth Style	Typical Resin Content (%)	Typical Dk					Typical Df				
	mil	mm			13GHz	23GHz	34GHz	45GHz	55GHz	13GHz	23GHz	34GHz	45GHz	55GHz
7	7.1	0.180	3313 X 2	51	3.80	3.80	3.80	3.80	3.80	0.0074	0.0078	0.0083	0.0088	0.0092
7	7.1	0.180	1067 X 3	70	3.40	3.40	3.40	3.40	3.40	0.0074	0.0078	0.0082	0.0086	0.0090
7.5	7.5	0.190	7628 × 1	45	3.96	3.96	3.96	3.96	3.96	0.0075	0.0079	0.0083	0.0088	0.0092
8	7.9	0.200	3313 × 2	57	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
8	7.9	0.200	2116 × 2	47	3.90	3.90	3.90	3.90	3.90	0.0074	0.0079	0.0083	0.0088	0.0092
9	9.1	0.230	2116 × 2	52	3.77	3.77	3.77	3.77	3.77	0.0074	0.0078	0.0083	0.0088	0.0092
10	9.8	0.250	2116 × 2	56	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
12	11.8	0.300	1504 × 2	49	3.85	3.85	3.85	3.85	3.85	0.0074	0.0079	0.0083	0.0088	0.0092
15	15.0	0.380	7628 × 2	45	3.96	3.96	3.96	3.96	3.96	0.0075	0.0079	0.0083	0.0088	0.0092
18	18.1	0.460	7628 × 2 + 3313 × 1	45	3.96	3.96	3.96	3.96	3.96	0.0075	0.0079	0.0083	0.0088	0.0092
20	20.1	0.510	7628 × 2 + 1080 × 2	49	3.85	3.85	3.85	3.85	3.85	0.0074	0.0079	0.0083	0.0088	0.0092
20	20.1	0.510	7628 × 2 + 2116 × 1	48	3.88	3.88	3.88	3.88	3.88	0.0074	0.0079	0.0083	0.0088	0.0092
22	22.0	0.560	7628 × 3	44	3.99	3.99	3.99	3.99	3.99	0.0075	0.0079	0.0084	0.0088	0.0093
24	24.0	0.610	7628 × 3	48	3.88	3.88	3.88	3.88	3.88	0.0074	0.0079	0.0083	0.0088	0.0092
26	26.0	0.660	7628 × 3 + 2116 × 1	45	3.96	3.96	3.96	3.96	3.96	0.0075	0.0079	0.0083	0.0088	0.0092
28	28.0	0.710	7628 × 4	42	4.04	4.04	4.04	4.04	4.04	0.0075	0.0079	0.0084	0.0088	0.0093
31	31.1	0.790	7628 × 4	47	3.90	3.90	3.90	3.90	3.90	0.0074	0.0079	0.0083	0.0088	0.0092
40	39.4	1.000	7628 × 5	47	3.90	3.90	3.90	3.90	3.90	0.0074	0.0079	0.0083	0.0088	0.0092
47	47.2	1.200	7628 × 6	47	3.90	3.90	3.90	3.90	3.90	0.0074	0.0079	0.0083	0.0088	0.0092

* The data in the above table are not guaranteed values.

Specification / Prepreg R-5620

1MHz - 1GHz ; IPC TM650-2.5.5.9

Cloth Style	Resin Content (%)	Typical Thickness (um)	Typical Dk			Typical Df		
			1MHz	100MHz	1GHz	1MHz	100MHz	1GHz
106	72	51	3.39	3.39	3.38	0.005	0.005	0.006
	75	58	3.33	3.33	3.32	0.005	0.005	0.006
1067	66	52	3.58	3.56	3.56	0.005	0.005	0.005
	70	59	3.47	3.46	3.45	0.005	0.005	0.006
	74	70	3.34	3.34	3.33	0.005	0.005	0.006
1080	65	76	3.64	3.61	3.60	0.005	0.005	0.005
	69	87	3.51	3.48	3.46	0.005	0.005	0.006
	73	102	3.38	3.38	3.37	0.005	0.005	0.006
	77	122	3.32	3.32	3.31	0.005	0.005	0.006
1078	64	75	3.65	3.63	3.62	0.005	0.005	0.005
	69	89	3.51	3.48	3.46	0.005	0.005	0.006
3313	57	103	3.89	3.85	3.83	0.005	0.005	0.005
	63	123	3.69	3.66	3.65	0.005	0.005	0.005
2116	53	118	4.03	3.98	3.95	0.005	0.005	0.005
	56	128	3.93	3.88	3.86	0.005	0.005	0.005
	59	139	3.82	3.79	3.77	0.005	0.005	0.005
1504	51	160	4.10	4.05	4.01	0.004	0.005	0.005
1501	51	178	4.10	4.05	4.01	0.004	0.005	0.005
7628	44	190	4.29	4.26	4.22	0.004	0.005	0.005

* The data in the above table are not guaranteed values.

Specification / Prepreg R-5620

2GHz-10GHz ; IPC TM650-2.5.5.5

Cloth Style	Resin Content (%)	Typical Thickness (um)	Typical Dk					Typical Df				
			2GHz	4GHz	6GHz	8GHz	10GHz	2GHz	4GHz	6GHz	8GHz	10GHz
106	72	51	3.38	3.37	3.37	3.37	3.37	0.006	0.006	0.007	0.008	0.008
	75	58	3.32	3.31	3.31	3.31	3.31	0.006	0.007	0.007	0.008	0.009
1067	66	52	3.56	3.56	3.56	3.56	3.55	0.006	0.006	0.007	0.008	0.008
	70	59	3.44	3.43	3.42	3.42	3.41	0.006	0.006	0.007	0.008	0.008
	74	70	3.33	3.32	3.32	3.32	3.32	0.006	0.007	0.007	0.008	0.008
1080	65	76	3.59	3.58	3.57	3.57	3.57	0.006	0.006	0.007	0.008	0.008
	69	87	3.46	3.44	3.44	3.44	3.44	0.006	0.006	0.007	0.008	0.008
	73	102	3.37	3.36	3.36	3.36	3.36	0.006	0.006	0.007	0.008	0.008
	77	122	3.31	3.31	3.30	3.30	3.30	0.006	0.007	0.008	0.008	0.009
1078	64	75	3.62	3.62	3.61	3.61	3.61	0.006	0.006	0.007	0.007	0.008
	69	89	3.46	3.44	3.44	3.44	3.44	0.006	0.006	0.007	0.008	0.008
3313	57	103	3.82	3.82	3.81	3.80	3.80	0.006	0.006	0.006	0.007	0.007
	63	123	3.65	3.65	3.64	3.64	3.64	0.006	0.006	0.007	0.007	0.007
2116	53	118	3.94	3.92	3.90	3.88	3.87	0.006	0.006	0.006	0.007	0.007
	56	128	3.85	3.85	3.84	3.83	3.83	0.006	0.006	0.006	0.007	0.007
	59	139	3.76	3.76	3.75	3.75	3.74	0.006	0.006	0.006	0.007	0.007
1504	51	160	4.00	3.99	3.97	3.97	3.96	0.006	0.006	0.006	0.007	0.007
1501	51	178	4.00	3.99	3.97	3.97	3.96	0.006	0.006	0.006	0.007	0.007
7628	44	190	4.19	4.16	4.14	4.12	4.11	0.006	0.006	0.006	0.007	0.007

* The data in the above table are not guaranteed values.

Specification / Prepreg R-5620

13-55GHz ; Balanced-type Circular Disk Resonance Method [IEC 63185 (2020)]

Cloth Style	Resin Content (%)	Typical Thickness (um)	Typical Dk					Typical Df				
			13GHz	23GHz	34GHz	45GHz	55GHz	13GHz	23GHz	34GHz	45GHz	55GHz
106	72	51	3.36	3.36	3.36	3.36	3.36	0.0074	0.0078	0.0082	0.0086	0.0090
	75	58	3.31	3.31	3.31	3.31	3.31	0.0074	0.0077	0.0082	0.0086	0.0089
1067	66	52	3.48	3.48	3.48	3.48	3.48	0.0074	0.0078	0.0082	0.0086	0.0090
	70	59	3.40	3.40	3.40	3.40	3.40	0.0074	0.0078	0.0082	0.0086	0.0090
	74	70	3.33	3.33	3.33	3.33	3.33	0.0074	0.0077	0.0082	0.0086	0.0090
1080	65	76	3.50	3.50	3.50	3.50	3.50	0.0074	0.0078	0.0082	0.0086	0.0090
	69	87	3.42	3.42	3.42	3.42	3.42	0.0074	0.0078	0.0082	0.0086	0.0090
	73	102	3.35	3.35	3.35	3.35	3.35	0.0074	0.0077	0.0082	0.0086	0.0090
	77	122	3.27	3.27	3.27	3.27	3.27	0.0074	0.0077	0.0081	0.0086	0.0089
1078	64	75	3.52	3.52	3.52	3.52	3.52	0.0074	0.0078	0.0082	0.0087	0.0091
	69	89	3.42	3.42	3.42	3.42	3.42	0.0074	0.0078	0.0082	0.0086	0.0090
3313	57	103	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
	63	123	3.54	3.54	3.54	3.54	3.54	0.0074	0.0078	0.0082	0.0087	0.0091
2116	53	118	3.75	3.75	3.75	3.75	3.75	0.0074	0.0078	0.0083	0.0087	0.0092
	56	128	3.68	3.68	3.68	3.68	3.68	0.0074	0.0078	0.0083	0.0087	0.0091
	59	139	3.63	3.63	3.63	3.63	3.63	0.0074	0.0078	0.0083	0.0087	0.0091
1504	51	160	3.80	3.80	3.80	3.80	3.80	0.0074	0.0078	0.0083	0.0088	0.0092
1501	51	178	3.80	3.80	3.80	3.80	3.80	0.0074	0.0078	0.0083	0.0088	0.0092
7628	44	190	3.99	3.99	3.99	3.99	3.99	0.0075	0.0079	0.0084	0.0088	0.0093

* The data in the above table are not guaranteed values.

++ Before purchase ++

【Notes before you use】

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