

Data Sheet

**High modulus
Low CTE IC substrate material**

MEGTRON 

**Laminate R-G535
series**

Oct. 2020 No.201002-1

Properties

Circuit Board Materials

R-G535S / R-G535E MEGTRON GX

High Modulus

Low CTE

IC Substrate Laminate

TECHNICAL INFORMATION

■ Laminate

R-G535S (Low CTE glass cloth)

R-G535E (Normal glass cloth)

■ Advantages

- Low CTE
- Reduced Package Warpage
- Excellent Drillability
- High Heat Resistance

Item	Test Method	Condition	Unit	R-G535S	R-G535E
				(Low CTE Glass Cloth)	(Normal Glass Cloth)
				Typical Value**	
Glass transition temp. (Tg)	DMA*	A	°C	250-260	250-260
CTE x-axis	α 1 IPC-TM-650 2.4.41	A	ppm/°C	4-6	7-8
CTE y-axis				4-6	7-8
Dielectric constant (Dk)	1GHz IPC-TM-650 2.5.5.9	C-24/23/50	-	4.4	4.6
Dissipation factor (Df)				0.015	0.015
Volume resistivity	IPC-TM-650 2.5.17	C-23/50~C-65/90 (10cycle)	MΩ·m	1×10 ⁸	1×10 ⁸
Surface resistivity	IPC-TM-650 2.5.17	C-23/50~C-65/90 (10cycle)	MΩ	1×10 ⁸	1×10 ⁸
Solder heat resistance (288°C)	IPC-TM-650 2.4.13.1	A	sec	> 10	> 10
Flexural strength (X)	IPC-TM-650 2.4.4	A	N/mm ²	450	450
Water absorption	IPC-TM-650 2.6.2.1	E-24/50+D-24/23	%	0.15~0.20	0.15~0.20

The sample thickness is 0.8 mm.

* 0.4mm Measurement in tensile mode.

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

++ Before purchase ++

【Important Notices Before Use】

- The customer must verify the suitability and fitness of the product for use in their application.
- Customers communicating delivery specifications and usage forecasts in advance will be given higher priority in manufacturing and delivery from Panasonic.
- Product specifications are subject to change without notice
- For additional product information contact your distributor or local Panasonic location listed below.

【Safety Information】

- Please review the Safety Data Sheet (SDS) and use the product safely.
 - ▶ This product is intended only for use as an IC substrate laminate. Do not use this product for any other purpose.
 - ▶ For assistance in processing, contact your distributor or local Panasonic location listed below.

Contact Information

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Sales Offices

- China (Shanghai) TEL: 86-21-3855-2332
- Singapore TEL: 65-6241-6754
- Philippines (Makati) TEL: 63-632-886-6291 to 94
- Korea (Seoul) TEL: 82-2-361-7873
- Taiwan (Hsin Chu) TEL: 886-3-598-3201
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