

Low CTE& Normal Tg & Lead Free Compatible  
NY2140/NY2140P

特点 FEATURES:

- Tg140℃ 无铅兼容 Tg140℃ Lead-free Compatible
- 优秀的剥离强度 Excellent Peel Strength
- 低Z-CTE值 Low Z-axis CTE
- 低的吸水率 Low Water Absorption
- 优秀的耐CAF性能 Excellent Anti-CAF Performance
- 优秀的尺寸安定性 Excellent Dimension Stability

应用领域 APPLICATIONS:

- 消费电子 Consumer Electronics
- 电源、仪器仪表 Power supplies、Instrumentations
- 通讯设备Communication Equipment
- 汽车电子 Automotives

NY2140基板典型性能 Typical Properties for NY2140 Laminate

| 属性<br>Property    | 项目<br>Item                |     | 测试方法<br>IPC-TM-650 | 测试条件<br>Test Condition | 单位<br>Unit  | 典型值<br>Typical Value |                     |           |
|-------------------|---------------------------|-----|--------------------|------------------------|-------------|----------------------|---------------------|-----------|
| 热性能<br>Thermal    | 玻璃态转换温度 Tg                |     | 2.4.25             | DSC                    | ℃           | 140                  |                     |           |
|                   |                           |     | 2.4.24             | TMA                    | ℃           | \                    |                     |           |
|                   |                           |     | 2.4.24.4           | DMA                    | ℃           | \                    |                     |           |
|                   | X/Y轴热膨胀系数CTE,X/Y-axis     |     | 2.4.24.5           | < Tg,TMA               | PPM/℃       | 13\14                |                     |           |
|                   | Z轴热膨胀系数<br>Z-axis         |     | 2.4.24             | < Tg,TMA               | PPM/℃       | 50                   |                     |           |
|                   |                           |     |                    | > Tg,TMA               | PPM/℃       | 260                  |                     |           |
|                   |                           |     | 2.4.24             | 50~260℃                | %           | 3.5                  |                     |           |
|                   | 热裂解温度 Td                  |     | 2.4.24.6           | TGA(5%W.L)             | ℃           | 350                  |                     |           |
|                   | 耐热性 T288                  |     | 2.4.24.1           | Clad                   | Min         | 15                   |                     |           |
| Etched            |                           |     |                    | Min                    | 30          |                      |                     |           |
| 电性能<br>Electrical | 介电常数 DK<br>(R/C:55%/70%)  |     | 1MHz               | 2.5.5.9                | C-24/23/50  | -                    | 4.20\3.80           |           |
|                   |                           |     | 1GHz               |                        |             |                      | SPDR method         | 4.15\3.70 |
|                   |                           |     | 10GHz              |                        |             |                      |                     | \         |
|                   | 介质损耗 Df<br>(R/C:55%/70%)  |     | 1MHz               | 2.5.5.9                | C-24/23/50  | -                    | 0.0155\0.0166       |           |
|                   |                           |     | 1GHz               |                        |             |                      | 0.0166\0.0178       |           |
|                   |                           |     | 10GHz              |                        |             |                      | SPDR method         | \         |
|                   | 体积电阻 Volume Resistivity   |     |                    | 2.5.17.1               | C-96/35/90  | MΩ-cm                | 5.5×10 <sup>8</sup> |           |
|                   | 表面电阻 Surface Resistivity  |     |                    |                        |             | MΩ                   | 3.0×10 <sup>7</sup> |           |
| 物理性能<br>Physical  | 吸水率 Water Absorption      |     | 2.6.2.1            | E-1/105+D-24/23        | %           | 0.12                 |                     |           |
|                   | 剥离强度 Peel Strength (HTE)  | 1oz | 2.4.8              | As Received            | N/mm        | 1.42                 |                     |           |
|                   | 剥离强度 Peel Strength (RTF)  | 1oz |                    |                        |             | \                    |                     |           |
|                   | 剥离强度 Peel Strength (HVLP) | 1oz |                    |                        |             | \                    |                     |           |
|                   | 弯曲强度<br>Flexural Strength |     | Warp               | 2.4.4                  | As Received | N/mm <sup>2</sup>    | 515                 |           |
|                   |                           |     | Fill               |                        |             |                      | 405                 |           |
|                   | 耐燃性 Flame Resistance      |     |                    | UL-94                  | A&E-4/125   | -                    | V-0                 |           |