

Very Low Loss & Excellent Thermal Resistance  
NY6300/NY6300P

特点 FEATURES:

- 低介电常数和低介质损耗 (Low Dk 3.95@10GHz, Low Df 0.0042@10GHz)
- 高TG无铅兼容板材 High TG Lead-free compatible
- 低Z轴膨胀系数及优异通孔可靠性 Low Z-CTE offering superior PTH reliability
- 低吸水率 Low moisture absorption

应用领域 APPLICATIONS:

- 射频 Radio Frequency
- 服务器 Server
- 基站 Base Station
- 交换机 Switch

NY6300基板典型性能 Typical Properties for NY6300 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                    | ℃                 | \                    |                     |               |
|                           |                                       |                      | 2.4.24             | TMA                    | ℃                 | 190                  |                     |               |
|                           |                                       |                      | 2.4.24.4           | DMA                    | ℃                 | 230                  |                     |               |
|                           | X/Y轴热膨胀系数CTE,X/Y-axis (1078×20)       |                      | 2.4.24.5           | < Tg,TMA               | PPM/℃             | 20\21                |                     |               |
|                           | Z轴热膨胀系数<br>Z-axis Expansion (2116×12) |                      | 2.4.24             | < Tg,TMA               | PPM/℃             | 42                   |                     |               |
|                           |                                       |                      |                    | > Tg,TMA               | PPM/℃             | 250                  |                     |               |
|                           |                                       |                      | 2.4.24             | 50~260℃                | %                 | 2.3                  |                     |               |
|                           | 热裂解温度 Td                              |                      | 2.4.24.6           | TGA(5%W.L)             | ℃                 | 400                  |                     |               |
|                           | 耐热性 T288                              |                      | 2.4.24.1           | Clad                   | Min               | > 120                |                     |               |
| Etched                    |                                       |                      |                    | Min                    | > 120             |                      |                     |               |
| 电性能<br>Electrical         | 介电常数 DK<br>(R/C:55%/70%)              |                      | 1MHz               | 2.5.5.9                | C-24/23/50        | -                    | \                   |               |
|                           |                                       |                      | 1GHz               |                        |                   |                      |                     | 3.74\3.29     |
|                           |                                       |                      | 10GHz              |                        |                   |                      | SPDR method         | 3.95\3.50     |
|                           | 介质损耗 Df<br>(R/C:55%/70%)              |                      | 1MHz               | 2.5.5.9                | C-24/23/50        | -                    | \                   |               |
|                           |                                       |                      | 1GHz               |                        |                   |                      |                     | 0.0027\0.0024 |
|                           |                                       |                      | 10GHz              |                        |                   |                      | SPDR method         | 0.0042\0.0035 |
|                           | 体积电阻 Volume Resistivity               |                      |                    | 2.5.17.1               | C-96/35/90        | MΩ-cm                | 2.0×10 <sup>9</sup> |               |
|                           | 表面电阻 Surface Resistivity              |                      |                    |                        |                   | MΩ                   | 1.0×10 <sup>8</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              | 0.9                  |                     |               |
| 剥离强度 Peel Strength (RTF)  |                                       | 1oz                  |                    |                        |                   | 0.5                  |                     |               |
| 剥离强度 Peel Strength (HVLP) |                                       | 1oz                  |                    |                        |                   | 0.7                  |                     |               |
| 弯曲强度<br>Flexural Strength |                                       | Warp                 | 2.4.4              | As Received            | N/mm <sup>2</sup> | 490                  |                     |               |
|                           |                                       | Fill                 |                    |                        |                   | 449                  |                     |               |
| 耐燃性 Flame Resistance      |                                       |                      | UL-94              | A&E-4/125              | -                 | V-0                  |                     |               |