

Ultra Low Loss & Excellent Thermal Resistance  
NY6300SN/NY6300SNP

特点 FEATURES:

- 低介电常数和介质损耗 (Low Dk 3.45@10GHz, Low Df 0.0025@10GHz)
- 高TG无卤无铅兼容 High TG Halogen-free and Lead-free compatible
- 较低Z轴膨胀系数及优异通孔可靠性 Lower Z-CTE offering superior PTH reliability
- 低吸湿性 Lower moisture absorption

应用领域 APPLICATIONS:

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

NY6300SN基板典型性能 Typical Properties for NY6300SN 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                    | ℃                 | 170                  |                     |               |
|                           |                                       |                      | 2.4.24.4           | DMA                    | ℃                 | 210                  |                     |               |
|                           | X/Y轴热膨胀系数CTE,X/Y-axis (1078×20)       |                      | 2.4.24.5           | < Tg,TMA               | PPM/℃             | 15\17                |                     |               |
|                           | Z轴热膨胀系数<br>Z-axis Expansion (2116×12) |                      | 2.4.24             | < Tg,TMA               | PPM/℃             | 40                   |                     |               |
|                           |                                       |                      |                    | > Tg,TMA               | PPM/℃             | 185                  |                     |               |
|                           |                                       |                      | 2.4.24             | 50~260℃                | %                 | 2.2                  |                     |               |
|                           | 热裂解温度 Td                              |                      | 2.4.24.6           | TGA(5%W.L)             | ℃                 | 430                  |                     |               |
|                           | 耐热性 T288                              |                      | 2.4.24.1           | Clad                   | Min               | > 60                 |                     |               |
| Etched                    |                                       |                      |                    | Min                    | > 60              |                      |                     |               |
| 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               |                        |                   |                      |                     | 3.40\3.15     |
|                           |                                       |                      | 10GHz              |                        |                   |                      | SPDR method         | 3.45\3.20     |
|                           | 介质损耗 Df<br>(R/C:55%/70%)              |                      | 1MHz               | 2.5.5.9                | C-24/23/50        | -                    | \                   |               |
|                           |                                       |                      | 1GHz               |                        |                   |                      |                     | 0.0014\0.0013 |
|                           |                                       |                      | 10GHz              |                        |                   |                      | SPDR method         | 0.0025\0.0020 |
|                           | 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              | 0.8                  |                     |               |
| 剥离强度 Peel Strength (RTF)  |                                       | 1oz                  |                    |                        |                   | 0.6                  |                     |               |
| 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                  |                     |               |