

产品编号: **NY6300**

## Very Low Loss & High Heat Resistance

### 特点:

- 低介电常数(Dk 3.6@10GHz)
- 介质损耗(Df 0.004@10GHz)
- Tg 190°C无铅兼容板材
- 低 Z 轴膨胀系数及优异通孔可靠性
- 低吸水性

### FEATURES:

- Low Dk (Dk 3.6@10GHz)
- Low Df (Df 0.004@10GHz)
- Tg 190°C, Lead-free compatible
- Lower Z-CTE, offering superior PTH reliability
- Lower moisture absorption

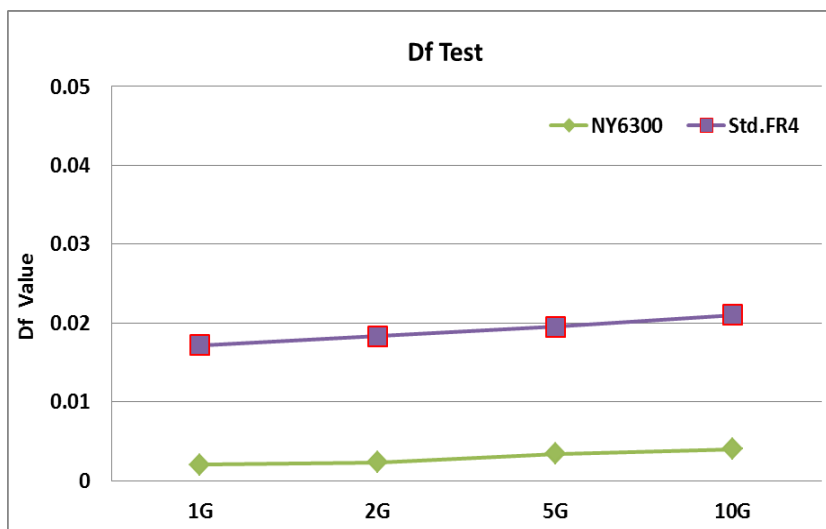
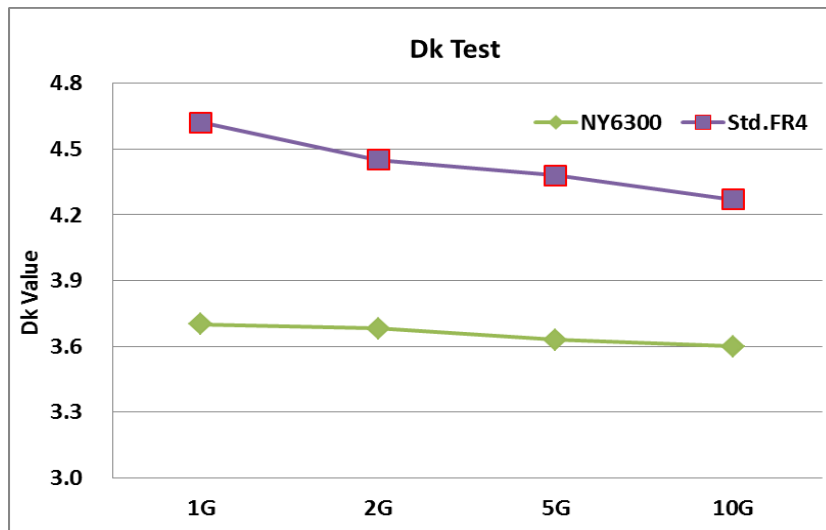
### 应用领域:

- 射频
- 服务器
- 基站
- 高性能计算机

### APPLICATIONS:

- Radio Frequency
- Server
- Base Station
- High Performance Computer

### Dk & Df 测试:





**NY6300 采购信息 PURCHASING INFORMATION**

基板厚度 Thickness	厚度公差 Tolerance	铜箔 Copper foil	标准供应尺寸 Standard Size
0.03mm to 3.2mm	IPC4101 Class C/M	1/3 oz to 3 oz	915×1220mm (36"×48"), 1020×1220mm (40"×48"), 1070×1220mm (42"×48"), 1830×1220mm (72"×48"), 2040×1220mm (80"×48"), 2140×1220mm (84"×48")

\*其它尺寸和厚度亦可供应 Other sheet size and thickness could be available upon request.

半固化片 Prepreg	标准供应尺寸 Standard Size	常用玻纤布型号 Normal Glass Type
PP	49.6"×300 m	1037, 106, 1067, 1078, 1080, 1086, 2113, 2313, 3313, 2116

\*其它裁片尺寸和卷长度亦可供应 Other sheet size and roll length could be available upon request.

**半固化片产品规格表 Specification Sheet for Prepreg**

NY6300P 半固化片 NY6300P Prepreg	单位 Units	产品规格 Specification	典型值 Typical Value	测试方法 Test Method
1. 玻纤布 Reinforcement	---	As per IPC-4412 or AABUS		
2. 树脂含量 Resin Content	%	±2	±2	2.3.16.1C By treated weight
3. 胶化时间 Gel Time	sec	±30	±30	2.3.18A
4. 树脂流量 Resin Flow	%	±8	±8	2.3.17D
5. 挥发份含量 Volatile content	%	<1.5	<1.5	2.3.19C
6. 储存期 Shelf Life (条件1Condition 1 /条件2Condition 2)	Days	90/30	90/30	AABUS
7. 燃烧性 Flammability (压合后as laminated)	rating	V-0	V-0	UL94
8. 其它 Other	---	As per IPC-4101 or AABUS		

\*AABUS = 供需双方商定 As agreed upon between user and supplier.

\*储存期 Shelf Life (条件1Condition 1 / Temp.: <5°C, 条件2Condition 2/Temp.: <23°C R.H.: <50%).



**NY6300 基板产品规格表 Specification Sheet for Laminate**

NY6300 覆铜箔板 NY6300 Laminate	单位Units	产品规格 Specification		典型值 Typical Value	测试方法 Test Method
	Metric(English)	<0.50mm	≧0.50mm	1.60mm CCL	IPC-TM-650
1. 抗剥强度 Peel Strength, 收货时 As received A. 1/2 盎司及以下铜箔 17 micron copper B. 1盎司铜箔 35 micron copper C. 2盎司铜箔 70 micron copper D. 3,4,5盎司及以上铜箔 105, 140, 175 micron copper and above	N/mm(lb/inch), minimum	0.70 (4.0) 0.79 (4.5) 0.88 (5.0) 0.96 (5.5)	0.70 (4.0) 1.05 (6.0) 1.30 (8.0) 1.40 (9.0)	0.9 (1oz)	2.4.8 2.4.8.2 2.4.8.3
2. 体积电阻 Volume Resistivity, A. 恒温恒湿 C-96/35/90 B. 耐湿后 After moisture resistance C. 高温下 At elevated temperature E-24/125	MΩ-cm, minimum	10 <sup>6</sup> --- 10 <sup>3</sup>	--- 10 <sup>4</sup> 10 <sup>3</sup>	--- 2.0×10 <sup>9</sup> 2.5×10 <sup>7</sup>	2.5.17.1
3. 表面电阻 Surface Resistivity, A. 恒温恒湿 C-96/35/90 B. 耐湿后 After moisture resistance C. 高温下 At elevated temperature E-24/125	MΩ, minimum	10 <sup>4</sup> --- 10 <sup>3</sup>	--- 10 <sup>4</sup> 10 <sup>3</sup>	--- 1.0×10 <sup>8</sup> 5.0×10 <sup>6</sup>	2.5.17.1
4. 吸水率 Moisture Absorption	% maximum	---	0.5	0.12	2.6.2.1
5. 击穿电压 Dielectric Breakdown	kV minimum	---	40	60	2.5.6
6. 介电常数 Permittivity (RC 55%) (Laminate & Prepreg as laminated) @1 GHz @10 GHz	--- maximum	5.4	5.4	3.70 3.60	SPDR
7. 介质损耗 Loss Tangent (RC 55%) (Laminate & Prepreg as laminated) @1 GHz @10 GHz	--- maximum	0.035	0.035	0.002 0.004	SPDR
8. 弯曲强度 Flexural Strength, A. 纵向 Length direction B. 横向 Cross direction	N/mm <sup>2</sup> , minimum	---	415 345	490 449	2.4.4
9. 高温弯曲强度 Flexural Strength at Elevated Temperature, length direction,	N/mm <sup>2</sup> minimum	---	---	---	2.4.4.1
10. 耐电弧性 Arc Resistance	S minimum	60	60	103	2.5.1
11. 热应力冲击 Thermal Stress A. 未蚀刻 Unetched B. 蚀刻 Etched	10 sec at 288℃	Pass Visual Pass Visual	Pass Visual Pass Visual	Pass Pass	2.4.13.1
12. 电气强度 Electric Strength (Laminate & Prepreg as laminated)	kV/mm minimum	30	---	---	2.5.6.2
13. 燃烧性 Flammability (Laminate & Prepreg as laminated)	rating	V-0	V-0	V-0	UL94
14. 玻璃态转化温度 Glass Transition Temperature	℃	---	≥170	190	2.4.24 2.4.25
15. 热分解温度 Decomposition Temperature	℃	---	≥340	410	TBD (5% wt loss)
16. 膨胀系数 Z-Axis CTE A. Alpha 1 B. Alpha 2 C. 50 to 260℃	PPM/℃ PPM/℃ %	--- --- ---	≤60 ≤300 ≤3.0	40 215 2.4	2.4.24
17. 耐热性(除去铜箔) Thermal Resistance (Copper removed) A.T260 B.T288 C.T300	Minutes Minutes Minutes	--- --- ---	≥30 ≥15 ≥2	>120 >120 >60	2.4.24.1
18. 耐CAF性能 CAF Resistance	Pass/Fail	---	AABUS	Pass	2.6.25

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