

Low loss 無膠雙面板

Low Loss Adhesiveless Double Side FCCL

I. 主要特性 Features

1. 優異的介電損失表現 Excellent performance in dielectric loss;
2. 優異的耐熱性和耐化學品性 Excellent thermal resistance and chemical resistance;
3. 良好的尺寸穩定性 Good dimensional stability;
4. 低吸水率 Low water absorption
5. 阻燃達到 UL94VTM-0/V-0 Excellent flammability and UL94VTM-0/V-0.

II. 主要性能表 General Properties

Item	Type Material		IF-2LD-L 5070	Remark					
	Spec.	Low Loss TPI Film (μm)		50	Width 250mm, 500mm Length 100m				
Copper Foil (μm)		70							
Properties	Test Item		Condition	Value	Standard			Test Method	
					≤ 1/3OZ	HOZ	≥ 1OZ		
	Peel Strength Kgf/cm	A		90°	>3.0	≥0.8	≥1.0	≥1.4	IPC-TM-650 2.4.9
		Chemical Resistance (%)	IPA	Dipping /10min	<10	≤20			IPC-TM-650 2.3.2
			NaOH		<10				
			HCl		<10				
	Water Absorption (%)		D-24/23	<0.8	≤2.0			IPC-TM-650 2.6.2	
	Solder Resistance		E-1/150	OK	300°C/10S			IPC-TM-650 2.4.13	
	Dimensional Stability (%)	MD		Method B	-0.01~0.05	≤±0.08			IPC-TM-650 2.2.4
		TD			-0.03~0.03				
		MD		Method C	-0.09~0.01	≤±0.10			
		TD			-0.07~0.03				
	Volume Resistance (Ω·cm)		C-96/23/65	>2×10 ¹⁵	≥10 ¹³			IPC-TM-650 2.5.17	
	Surface Resistance (Ω)			>3×10 ¹²	≥10 ¹²				
	Insulation Resistance (Ω)			>1×10 ⁹	≥10 ⁹				IPC-TM-650 2.6.3.2
Dielectric Constant (10GHz)		C-24/23/50	3.10	≤3.5			IPC-TM-650 2.5.5.3		
Dielectric Loss (10GHz)			0.006	≤0.010					
Flammability		---	V-0	V-0/ VTM-0			UL94		

注：以上所列數據僅供參考，詳見出貨報告。Note: Data shown above are nominal values for reference only, for details please refer to COA.

III. 儲存條件 Storage

真空包裝：30°C 以下，濕度 70% 以下，儲存一年。Vacuum Packaging: Lower than 30°C and 70%RH for one year.