

NIKAFLEX®

无卤聚酰亚胺薄膜基材柔性电路用覆铜箔层压板
 Halogen free polyimide film base copper clad laminate for Flexible Printed Circuits

F-72VC1 (单面覆铜板)
 Single-sided Copper Clad Laminate

F-72VC2 (双面覆铜板)
 Double-sided Copper Clad Laminate

特点 Features

- 1 无卤素、不含镁材料。
Our halogen free materials scarcely contain antimony.
- 2 焊锡耐热性优良、能充分承受流焊工序、广泛用于各种电子产品。
Because of excellent resistance to solder temperature, it bears up against flow-soldering process and is used consequently for a wide range of parts of high-class electronic equipment.
- 3 加热后的尺寸稳定性良好、可形成高密度线路板。
Formation of high density patterns is possible because of its excellent in dimensional stability.
- 4 具有优良的可挠性。
Excellent in flexibility.

标准产品规格 Specifications of standard Products

铜箔 Copper foil		电解铜箔 Electrolytic copper foil	压延铜箔 Rolled copper foil
厚度 (μm) Thickness		9, 12, 18, 35	12, 18, 35
粘合剂厚度 (μm) Adhesive thickness		12	
基材薄膜厚度 (μm) Base film thickness		12.5, 25, 50	
标准尺寸 (mm) Standard size	单面覆铜板 Single-sided Copper Clad Laminate	500 × Roll (100m)	
	双面覆铜板 Double-sided Copper Clad Laminate	500 × Roll (50m)	

UL FILE No:E46785 UL Recognition (FILE No:E46785)

耐燃性等级 Flammability class	94VTM-0
焊锡耐热性 Solder temp. resistance	280°C /10sec.
额定温度 Rated temperature	105°C

F-72VC₁ 性能表 Properties of F-72VC₁

聚酰亚胺薄膜25 μm、压延铜箔35 μm、单面覆铜板F-72VC₁ 25RC11 (H)
Model No. F-72VC₁ 25RC11 (H) (Polyimide film 25μm, Rolled copper foil 35μm)

试验项目 Test item	单位 Unit	处理条件 Treatment conditions		标准值 (平均) Our Standard Value (Average)	试验方法 Test Method
绝缘电阻 Insulation Resistance	Ω	C-96/20/65		3 × 10 ¹³	JIS C 6471 (IPC-FC-241 for test pattern)
		C-96/40/90		6 × 10 ¹²	
表面电阻率 Surface Resistivity	Ω	C-96/20/65		3 × 10 ¹⁶	JIS C 6481
		C-96/40/90		5 × 10 ¹⁵	
体积电阻率 Volume Resistivity	Ω ·cm	C-96/20/65		3 × 10 ¹⁶	JIS C 6471
		C-96/40/90		6 × 10 ¹⁵	
电容率 (1MHz) Dielectric Constant	—	C-96/20/65		3.5	JIS C 6471
		D-24/23		3.8	
损耗因数 (1MHz) Dissipation Factor	—	C-96/20/65		0.019	JIS C 6471
		D-24/23		0.024	
剥离强度 Peel Strength	N/mm	A		0.8	JIS C 6471
		E-1/200		0.8	
焊锡耐热性 Solder Heat Resistance	—	280°C /10sec.		无异常 No change in appearance	IPC-FC-241B
耐热性 Heat Resistance	—	E-1/200		无异常 No change in appearance	JIS C 6481
耐药品性 Chemical Resistance	—	23°C /10min.		无异常 No change in appearance	IPC-FC-241B
尺寸稳定性 Dimensional Stability	%	E-0.5/150	MD	+ 0.03	JIS C 6471
			TD	+ 0.07	
MIT耐折性 Flexural Endurance 2.0mmR	回 Cycle	MD		2810	JIS C 6471
		TD		2870	