



# SF305

SF305 Halogen-free PI film based flexible copper clad laminate ( 3-layer FCCL)

## FEATURES

- Halogen free, and Flammability UL94 V-0.
- Excellent flexibility, thermal resistance , dimensional stability and electrical properties.
- Compatible with EU RoHS directive, free of Pb, Hg,Cd, Cr<sup>6+</sup>,PBB,PBDE, etc..

## APPLICATIONS

Computer, Mobile phone, Digital camera, VCR, OA equipment, etc..

## GENERAL PROPERTIES

Test Item	Treatment Condition	Unit	Property Data		
			IPC Standard	Typical Value	
				051813DR	051813SE
Peel Strength (90°)	A	N/mm	≥0.7	1.1	1.3
	288°C,5s		≥0.5	1.0	1.2
Folding Endurance (MIT)	R0.8X4.9N	Times	-	>600	>350
Thermal Stress	300°C,30s	-	-	No delamination	No delamination
Dimensional Stability	E-0.5/150	%	±0.2	±0.1	±0.1
				MD	±0.1
TD					
Chemical Resistance	After Chemical Exposure	%	≥80	>85	>85
Dielectric Constant(1MHz)	C-24/23/50	-	≤4.0	3.6	3.6
Dissipation Factor (1MHz)	C-24/23/50	-	≤0.04	0.031	0.030
Volume Resistivity	C-96/35/90	MΩ · cm	≥10 <sup>6</sup>	1.5x10 <sup>8</sup>	2.0x10 <sup>8</sup>
Surface Resistance	C-96/35/90	MΩ	≥10 <sup>5</sup>	5.0x10 <sup>6</sup>	4.5x10 <sup>6</sup>

Explanations: C = Humidity conditioning;  
E = Temperature conditioning.



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## Product Code Description



## SPECIFICATIONS OF STANDARD PRODUCTS

Specifications	Thickness ( μ m)			Single/Double Side	Copper Type
	PI film	Copper Foil	Adhesive		
SF305 051213DR	12.5	12	13	Double	RA
SF305 051213DE	12.5	12	13	Double	ED
SF305 051813SR	12.5	18	13	Single	RA
SF305 051813DR	12.5	18	13	Double	RA
SF305 051813SE	12.5	18	13	Single	ED
SF305 051813DE	12.5	18	13	Double	ED
SF305 101820SR	25	18	20	Single	RA
SF305 101820DR	25	18	20	Double	RA
SF305 101820SE	25	18	20	Single	ED
SF305 101820DE	25	18	20	Double	ED
SF305 103520SR	25	35	20	Single	RA
SF305 103520SE	25	35	20	Single	ED
SF305 103520DR	25	35	20	Double	RA
SF305 103520DE	25	35	20	Double	ED
SF305 203520SR	50	35	20	Single	RA
SF305 203520SE	50	35	20	Single	ED

## PURCHASING INFORMATION

SF305 is supplied in rolls and standard widths of 250±2mm or 500±2mm. Roll length is 50+1/-0m or 100+2/-0m. Other sizes could be available upon request.

## STORAGE CONDITION

Stored in the room of dryness and no corrosive gases. One year when stored in the original packaging at room temperature. The products do not require refrigeration and should not be frozen.