## Metallic Teflon woven glass fabric copper-clad laminates F4B-1/Al(CU)

F4B-1/AL ( Cu ) is a kind of microwave circuit metal base material based on Teflon woven glass fabric copper-clad laminates , which is pressed with copper on one side、and aluminum ( copper ) plate on the other side.

## Technical Specifications:

Dimension ( mm )	300×300 400×400					
	For special dimension , customized laminates is available.					
Thickness Of metal base	Optional by the user.					
Warp	The specification meets the design requirement for base laminate.					
Electrical Property	Name	Test condition	Unit	Value		
	Density ( Dielectric layer )	Normal state	g/ cm3	2.2~2.3		
	Moisture Absorption	Dip in the distilled water of 20±2°C for24 hours	%	≤0.02		
	Operating Temperature	High-low temperature chamber	°C	-50°C ~ +260°C		
	Thermal Conductivity ( Dielectric layer )		W/m/k	0.3~0.5		
	CTE	•	ppm/°C	Same to the F4BM-2		
	Shrinkage Factor	2 hours in boiling water	%	□ 0.0002		
	Surface Resistivity	500V Normal state	M·Ω	≥1×104		
		DC Constant humidity and temperature		≥1×103		
	Volume Resistivity	Normal state	- MΩ.cm	≥1×106		
		Constant humidity and temperature		≥1×105		

	Surface dielectric strength	Normal state	d=1mm(Kv/mm)	≥1.2
		Constant humidity and temperature		≥1.1
	Dielectric Constant	10GHZ	ετ	2.25 , 2.65 , 3.0 ( ±2% ) , 3.5
	Dissipation Factor	10GHZ	tgδ	≤1.5×10-3
	Thermal resistance	A	°C/W	≥2.0



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