

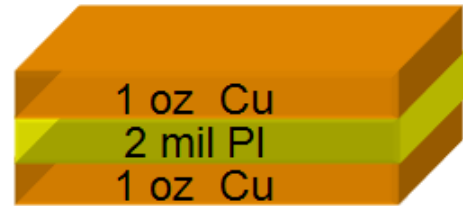
# 2L FCCL

## Two Layer Flexible Copper Clad Laminate

### Feature

- High volume commercialized flexible film constructed by polyimide and copper layer.
- High Tg, excellent flame resistance and outstanding mechanical strength.
- High dimensional stability after thermal process.
- Low moisture absorption rate and high moisture resistance.
- Excellent dielectric properties.

### Construction



### Application

- FPC

### License

- RoHS

### Type Designation

2UP	D	R	20	10	JD
<ul style="list-style-type: none"> <li>● Taiflex 2L Type</li> <li>● UBE:2VP、2UP</li> <li>● KNK:2BP、2FP</li> <li>● Taiflex:2TP、2OP</li> </ul>	<ul style="list-style-type: none"> <li>● Copper Foil Side</li> <li>● Single side:S</li> <li>● Double side:D</li> </ul>	<ul style="list-style-type: none"> <li>● Cooper Foil Type</li> <li>● ED Cu:E</li> <li>● RA Cu:R</li> </ul>	<ul style="list-style-type: none"> <li>● PI Film Thickness</li> <li>● 2 mil:20</li> <li>● 1.5 mil:15</li> <li>● 1.3 mil:13</li> <li>● 1 mil:10</li> <li>● 0.8 mil:08</li> <li>● 0.5 mil:05</li> </ul>	<ul style="list-style-type: none"> <li>● Copper Foil Thickness</li> <li>● 2 oz:20</li> <li>● 1 oz:10</li> <li>● 1/2 oz:05</li> <li>● 1/3 oz:03</li> </ul>	<ul style="list-style-type: none"> <li>● Copper Foil Type</li> <li>● JX:JD</li> </ul>

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### Reliability Performance

The value is Typical and not guarantee.

Reliability Performance			Unit	2UPDR2010JD
Type of Cu				RA
Basic	Peel strength		kgf/cm	1.36
	As received			
	Dimensional stability	Method B	MD	-0.008
			TD	0.02
	Method C	MD	-0.019	
TD		0.012		
Solder (Dip)		300°C /30sec	Pass	
Machine	Tensile strength		MPa	MD 504/TD 516
	Elongation		%	MD 85/TD 86
	Modulus		GPa	MD 7.3/TD 7.4
Electrical	Volume resistivity (Rv)		Ωcm	2.94*10 <sup>14</sup>
	1000V			
	Surface resistance (Rs)		Ω	2.83*10 <sup>13</sup>
	1000V			
Dielectric Constant (Dk)		10GHz	-	3.5
Dissipation Factor (Df)		10GHz	-	0.008
Other	CTE (25~200°C)		MD	19.2
			TD	18
Shelf Life			Month	12 Months@<35°C, 65±20R.H.