

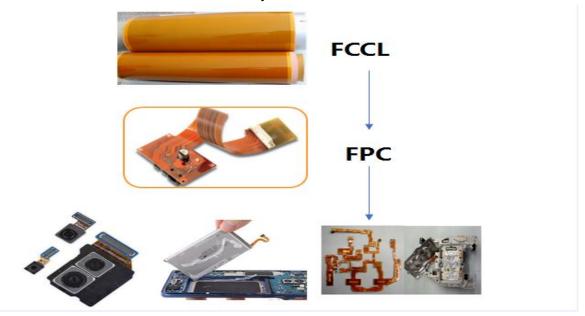
### **PCB** Copper foil

Copper Foil factory, more than 10 years manufacture experience, attained ISO9001, work on OEM and ODM projects..

### 1. Introduction of the PCB Copper foil

Copper foil is a thin, continuous metal foil deposited on the base layer of a circuit board, It is easy to adhere to the insulation layer, to accept the protective layer of printing, corrosion after the formation of circuit patterns. As an important material to made of CCL and printed circuit board (PCB).

PCB copper foil (purity of more than 99.7%, thickness 5um-105um) is one of the basic materials of the electronics industry



#### 2. Grade and temper for PCB Copper foil

Grade: T2 ,TU2, C102 , C1020, C1100 , Cu-ETP , CDA110, CDA102,

Temper: O(M), 1/4H(Y4), 1/2H(Y2), H(Y), HH(T)

## 3. Chemical composition of PCB Copper foil

Cu+Ag: ≥99.95

Sn : ≤0.002

Zn: ≤0.005

Pb: ≤0.005

Ni: ≤0.005

Fe: ≤0.005

Sb : ≤0.002

Address: No.16 Shuanggang street, Tangchun Village, Liaobu Town, 523407 Dongguan, Guangdong, China



S : ≤0.005

As :  $\leq 0.002$ Bi:  $\leq 0.001$ O:  $\leq 0.06$ 

Impurities: ≤0.1

## 4. Dimension and tolerance of PCB Copper foil

Thickness: 9um –100um Width: 10mm--1350mm

## 5. Mechanical properties for PCB Copper foil

Classification			Unit	9µm	12µm	18µm	22µm	35µm	50µm	70µm
1	Cu Purity ( Grade: C1100 )		%	Min.99.97						
2	Unit Area Weight		g/m²	80 ± 2	107±3	160±4	196±4	311±5	445±5	623±5
3	Tensile Strength	180°C/30min	N/mm²	160-180	160-180	170-190	180-210	180-210	200-220	210-240
4	Elongation Rate	180°C/30min	%	≥7	≥7	≥8	≥9	≥11	≥13	≥20
5	Roughness		μm	M Surface Rz: 0.8-1.5; S Surface Ra: Max.0.2						
6	Peel Strength		N/mm	≥0.8	≥0.8	≥0.9	≥1.0	≥1.2	≥1.4	≥2.0
7	Chemical Resistance		%	Max.5						
8	Oxidation Resistance			200°C/60min Non-discoloring						
9	Solder Resistance		300℃/20s No blisters							
10	Surface Quality		Uniform Color、No Wrinkle、No Scratche、No Pit and Salient Point							

## 6. Application of PCB Copper foil

It is widely used in electromagnetic shielding and anti-static, industrial calculators, Communications equipment, QA equipment, lithium-ion batteries, civilian television sets, video recorders, CD players, copiers, telephone, air conditioning, automotive electronics, game consoles.

## 7. Manufacture plant of PCB Copper foil

E-mail:sales@intcnc.com





# 8. Tests and inspection for PCB Copper foil

Test instrument : Metallographic Microscope; Digital Light Processor; Strength Tester; Hardness Tester.



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## 9. Mill certificate for PCB Copper foil



Test Report

No. CANML1521268101

Date: 10 Dec 2015

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Sample photo:



SGS authenticate the photo on original report only

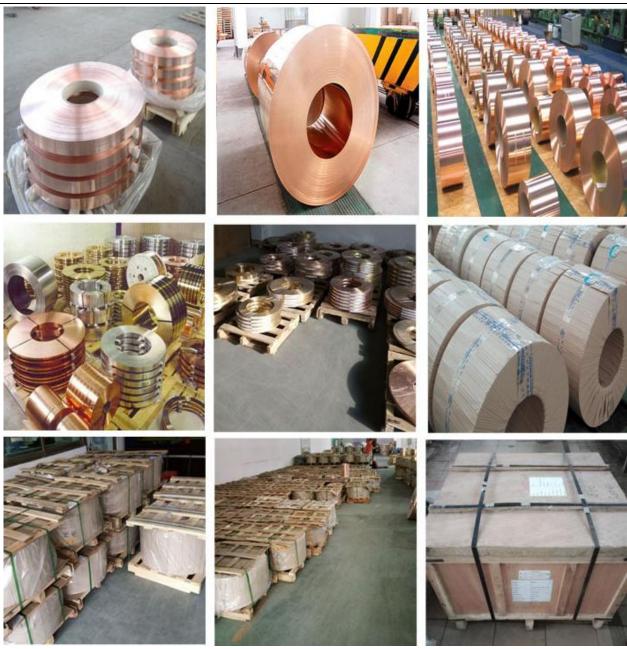
\*\*\* End of Report \*\*\*

# 10. Packing and shipping for PCB Copper foil Packing:

First wrapped by anti-rust paper, second wrapped by plastic film, then packed by wooden box or wooden pallet ..

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## Shipping:

We will choose the best way according to customer's requests.

- 1. By Air, to the indicated airport.
- 2. By Express (FedEx, UPS, DHL, TNT, EMS), to the indicated address.
- 2. By Sea, to the indicated sea port.

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#### 11. Questions and Answers

## a1. Do you have ISO certificate?

Yes, we obtained ISO9001

## a2. How long is your delivery time for copper foil?

If the master coil is available, 3-7 days do slitting will be ready, if not, will need 20-25 days for new production.

## a3. Can you help us to choose suitable material?

Yes, we can recommend the most suitable material according to your application.

## a4. How do you control quality?

We produce strictly according to customer's drawings and requests, here are strict control plan in every process, full check of each parts, strive to provide customer 100% quality products, ROHS/SGS test report, material certificate are available.

## a5. Do you provide sample? Free or charge?

Yes, if the sample in stock available, free of charge, if not, need to charge some mfg cost.

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