



NAM HING CIRCUIT BOARD COMPANY LIMITED

Professional, Focus, Innovation



NAM HING CIRCUIT BOARD COMPANY LIMITED

About Nam Hing

Established in 1964, Nam Hing Circuit Board Co., Ltd. was one of the largest and earliest PCB manufacturer in Hong Kong. Our products include single-sided, double-sided and multi-layers. We have developed a strong, reliable quality reputation among all well known electronic manufacturers in the local and oversea markets. In 1993, we moved our production facilities into Dongguan, Guangdong, PRC and have had expanded its production capacity.

Being one of the pioneer PCB in Hong Kong, Nam Hing PCB had been producing highest quality and high performance PCBs to clients all over the world. With the latest ISO9001 & IATF 16949 certified production facilities, our PCB can be 100% secured with FMEA and SPC as well as UL recognition.

Today's high customer satisfaction is our first priority. Every PCB made will be satisfied by our customer is always our goal.



Manufacturer of UL
Certified Components

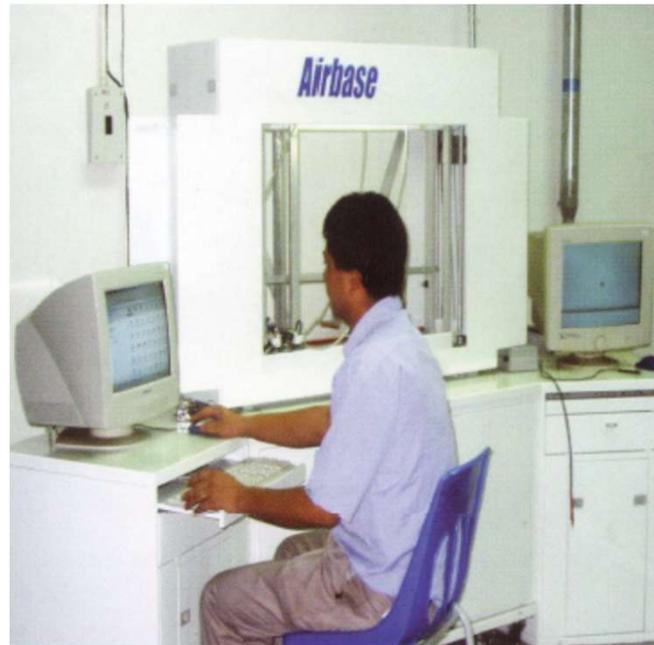


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Production Facilities



CNC Drilling Machine



Flying Probe Machine



Dry Film Exposure Machine



NAM HING CIRCUIT BOARD COMPANY LIMITED

Production Facilities



CNC Routing Machine



Automatic Plating Line



Black Oxide Line



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Production Facilities



Entek Line



Layup Line



Vacuum Pressing Machine



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Capabilities I

Available Laminates	FR4, CEM-1, FR2, FR1, XPC, Aluminum Substrate		
Board Thickness vs. Layers	FR4 (1-12 Layers)	0.25mm ~ 3.20mm	
	CEM-1 (1-2 Layers)	1.00mm ~ 1.60mm	
	FR2 (1-2 Layers)	0.80mm ~ 1.60mm	
	FR1 (1-2 Layers)	0.80mm ~ 1.60mm	
	XPC (1-2 Layers)	0.80mm ~ 1.60mm	
Copper Thickness	0.5mils	1/3oz	12.0μm
	0.7mils	1/2oz	17.5μm
	1.4mils	1oz	35.0μm
	2.8mils	2oz	70.0μm
	4.2mils	3oz	105.0μm
Drilling			
Min. Holes Size	PTH	0.20mm	
	NPTH	0.30mm	
Holes Size Tolerance	PTH	± 0.076mm	
	NPTH	± 0.051mm	



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Capabilities II

Holes Registration Tolerance	Coordinate of X, Y $\pm 0.076\text{mm}$ (First Drill)	
	$\pm 0.127\text{mm}$ (Second Drill)	
Min. Slot Size	Min. Slot width is 0.7mm	
	Slot Length not less than 2 times of its width	
Image Application	Min. Line Width/ Spacing	
Photo Imaging Process		
Base Copper Thickness	Flash Gold	HAL
1/4oz	0.0762mm	0.0762mm
1/2oz	0.0762mm	0.0762mm
1oz	0.13mm	0.15mm
2oz	0.18mm	0.20mm
Over 2oz	0.25mm	0.25mm
Line Width Tolerance	$\pm 20\%$ as per original film	
Pattern Registration	Tolerance ± 0.076	
PTH Copper Thickness	0.80 ~ 1.50 mils	



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Capabilities III

Solder Thickness (HAL)	Surface	80 ~ 100 microinch
	Hole	200 ~ 800 microinch
Soft Gold Thickness (Flash Gold)	Nickel	100 ~ 300 microinch
	Gold	1 ~ 3 microinch
Immersion Gold	Nickel	100 ~ 300 microinch
	Gold	3 ~ 8 microinch
Gold Finger Thickness	8 ~ 50 microinch	
Solder Mask Application		
Min. Solder Mask Bridge	0.13mm	
Min. Annular Ring	0.15mm	
Solder Mask Thickness	10 ~ 25mm	
Pattern Registration	Tolerance $\pm 0.004''$	
Others Process	Carbon Ink	
	Peelable Mask	
OSP (Entek)	Copper Protective Coating	



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Capabilities IV

Routing Tolerance	$\pm 0.20\text{mm}$ (Outline Dimension)
Max. Board Size (Routing)	24" x 18"
Punching Tolerance	± 0.13 (Outline Dimension)
Max. Board Size (Punching)	18" x 18"
V-Score Tolerance	$\pm 0.20\text{mm}$
Depth Tolerance	0.020" \pm 0.004"
	30° or 45° \pm 5°
Flatness (Warp/Twist)	Max. 0.0075 inch/inch
Electrical Test	Max. test 200mA
Continuity Test	10 ~ 100 ohms
Insulation Test	2Mega ~2 Mega Ohms

Certifications



NAM HING CIRCUIT BOARD COMPANY LIMITED



Certificate IATF 0302298
 Certificate SGS CN11/30278

The management system of

Nam Hing Circuit Board (Dongguan) Co., Ltd.

Lu Dong Industrial Zone, Humen Town, Dongguan City,
Guangdong Province, P.R. China



has been assessed and certified as meeting the requirements of

IATF 16949:2016

Edition 1

For the following activities

Manufacture of printed circuit boards for automobile

EXCLUSIONS: 8.3 Product Design
3 Year certification is valid from 01 May 2018 until 30 April 2021 and
remains valid subject to satisfactory surveillance audits.
Version no.05 Current version updated 01 May 2018

Authorised by

Alan Wylamu



Veto Power Authority

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Certificate CN11/30279
The management system of

Nam Hing Circuit Board (Dongguan) Co., Ltd.

Lu Dong Industrial Zone, Humen Town, Dongguan City,
Guangdong Province, P.R. China
Unified Social Credit Code: 91441900618331282H
has been assessed and certified as meeting the requirements of



ISO 9001:2015

For the following activities

Manufacture of printed circuit boards

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2015 requirements may be obtained by consulting the organisation

This certificate is valid from 1 May 2018 until 30 April 2021 and remains valid subject to satisfactory surveillance audits.
Recertification/audit due a minimum of 60 days before the expiration date.
Issue 4. Certified since 9 March 2011

Authorised by

KR




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NAM HING CIRCUIT BOARD COMPANY LIMITED

Service Commitment

- ✓ Quick Response and Action within 24 hours
- ✓ One-Stop & Professional Technical Support
- ✓ Excellent Customer Services
- ✓ On-time Delivery
- ✓ Strict Quality Assurance and Control





NAM HING CIRCUIT BOARD COMPANY LIMITED

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