

P.C.BOARD SAMPLE APPROVAL SHEET

Customer Name: Jiangsu InvisPower Co., Ltd.

Customer Part No: 9-098-2204007

Internal Part Number: 366W0208616A0

Date: 2023/7/3

INSPECTION RESULTS				
ITEM	Description	Specification	Actual	Results
1	Visual Inspection	Customer Spec/IPC-A-600 Class 3	Within SPEC	ACC
2	Material Type	FR-4 NP-140TL	FR-4 NP-140TL	ACC
3	Hole Size/Dimension	Customer Spec	Within SPEC	ACC
4	PCB total thickness	$0.6 \pm 0.1\text{mm}$	0.63mm	ACC
5	Warp/Twist	$\leq 3.0\text{mm}$	0.8mm	ACC
6	Tape Test-Solder Mask/Legend/Plating	IPC-TM-650(No peel off)	No peel off	ACC
7	Conductor Width	$0.3 \pm 20\%\text{mm}$	0.31mm	ACC
8	Conductor Spacing	$0.36 \pm 20\%\text{mm}$	0.38mm	ACC
9	Solder Mask	Green	Green	ACC
10	Legend Printing	White	White	ACC
11	Electrical Test	100% Test	Within SPEC	ACC
12	Solderability Test	The tin area $> 95\%$	Within SPEC	ACC
13	Tin thickness	1-40um	3.66um	ACC
14	Thermal Stress Test	IPC-TM-650(no peeling, NoDelamination)	No peeling, No	ACC
15	Hole Plating Copper Thickness	Min:25um	31.25um	ACC
16	Solder Mask Thkssolde	10-30um	25.32um	ACC

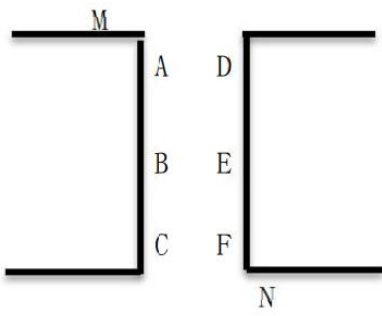
Final Result: ACC

Measurement report									
Hole	Size	Test	Report:						Unit:mm
Item	Spec	Tolerance		Actual					Result(ACC/REJ)
1	1.5	NPTH	±0.05	1.5	1.5	1.5	1.5	1.5	ACC
V-CUT Test Report									Unit:mm
Item	Spec	Tolerance							Result(ACC/REJ)
1	0.35	±0.05		0.36	0.33	0.34	0.36	0.35	ACC
Outline Dimension Test Report									Unit:mm
Item	Spec	Tolerance		Actual					Result(ACC/REJ)
1	5	±0.10		5.04	4.99	4.98	5.01	5.03	1
2	48.4	±0.13		48.41	48.38	48.43	48.37	48.39	2
3	62.4	±0.13		62.41	62.4	62.43	62.41	62.39	3
4	106.4	±0.13		106.38	106.40	106.41	106.39	106.42	4
5	120.4	±0.13		120.39	120.39	120.40	120.39	120.39	5
6	240.8	±0.13		240.82	240.81	240.79	240.78	240.79	6
7	124.8	±0.13		124.79	124.83	124.79	124.80	124.80	7
8	1	±0.10		1.01	1.03	0.99	0.97	1.01	8
9	0.6	±0.10		0.59	0.61	0.63	0.65	0.60	9

PCB OUTGOING INSPECTION REPORT

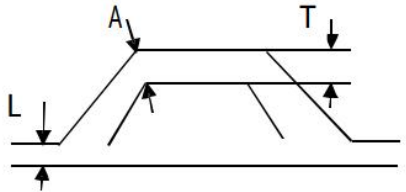
Microsection Inspection Report:

A. Copper Thickness

INSPECTION ITEM	COPPER THICKNESS				A,B,C,D,E,F points are measuring area. 
SPEC	PTH Copper Thickness:25um(min) Surface Copper Thickness:38.4um(min)				
ACTUAL	A	32.54	D	32.54	
	B	31.25	E	31.25	
	C	32.63	F	32.63	
	AVERAGE		32.14		
	M	41.15	N	41.32	

B. Soldermask Thickness

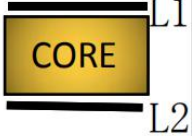
UNIT:mil

INSPECTION ITEM		SPEC	Actual	Result	
T	On trace	10-30um	25.32um	ACC	
A	Corner	$\geq 5\mu\text{m}$	16.65um	ACC	
L	On laminate	$\geq 10\mu\text{m}$	27.66um	ACC	

C. Others in Microsection Inspection

ITEM	Specification	Results
Roughness	Less than 1.0mil	0.35mil,Pass
Delamination	Not allow	No Delamination

D. Layer Construction Measurement: UNIT:um

ITEM	Specification	Actual	Results	
L1	38.4	48.237	ACC	
CORE	500	511.98	ACC	
L2	38.4	49.722	ACC	

Reliability Test Report

S/M hardness&tape test				
items	test method	Standard	quantity	result
tape test	3M scotch tape	No Peeling	3pcs	ACC
S/M hardness	6H pencil	6H	3pcs	ACC
a.solder mask tape test refer to 《IPC-TM-650 test methods manual》:2.4.28.1 solder resist film adhesion(scotch tape); b.legend tape test refer to 《IPC-TM-650 test methods manual》:2.4.1.1 legend tape test; c.S/M hardness test refer to 《IPC-TM-650 test methods manual》:2.4.27.2 solder				

For more detail please refer to the internal photos of the product.