

PCB Fabrication Application Operation Manual

TSRI, Eli Li
PCB / PADS Question
www.tsri.org.tw
Customer Service web

Version Modifications

Version	Effective Date	Editor	Remarks
1.0	2013.06	HY Lin	
2.0	2024.04	Eli Li HY Lin	English version no. follows Chinese version V2.0. A. TSRI web Change. B. Add chapter 5~8.

Contents

Preface	1
1. PCB Fabrication Application	2
1.1 PCB Fabrication Application web page.....	3
1.2 Proceed Application	4
1.3 Member Login	5
1.4 Enter “PCB Fabrication Application System”	6
2. Application Steps.....	7
2.1 New PCB Fabrication Application.....	8
2.2 Select Process, Batch and Item	8
2.3 Fill-in and Complete Application Form.....	9
2.4 Upload Files.....	10
2.5 Verify and Send	13
3. PCB Application Summary Table.....	17
4. Relevant Links	18
5. Contact Window.....	19
6. The Modification during DRC Period	20
6.1 PCB Modifications of Recognition Code and Unit Area Number	20
6.2 Reload Files	22
7. File Download	23
8. Application Cancellation.....	25

Preface

This manual is provided by TSRI (NAR Labs TSRI) to academia users to apply PCB fabrication.

1. PCB Fabrication Application

Enter PCB Fabrication Application web, Steps:

- (1) Enter “PCB Fabrication Application” web
- (2) Proceed Application
- (3) Member login.
- (4) Enter “PCB Fabrication Application System”

The details are in the following sections.

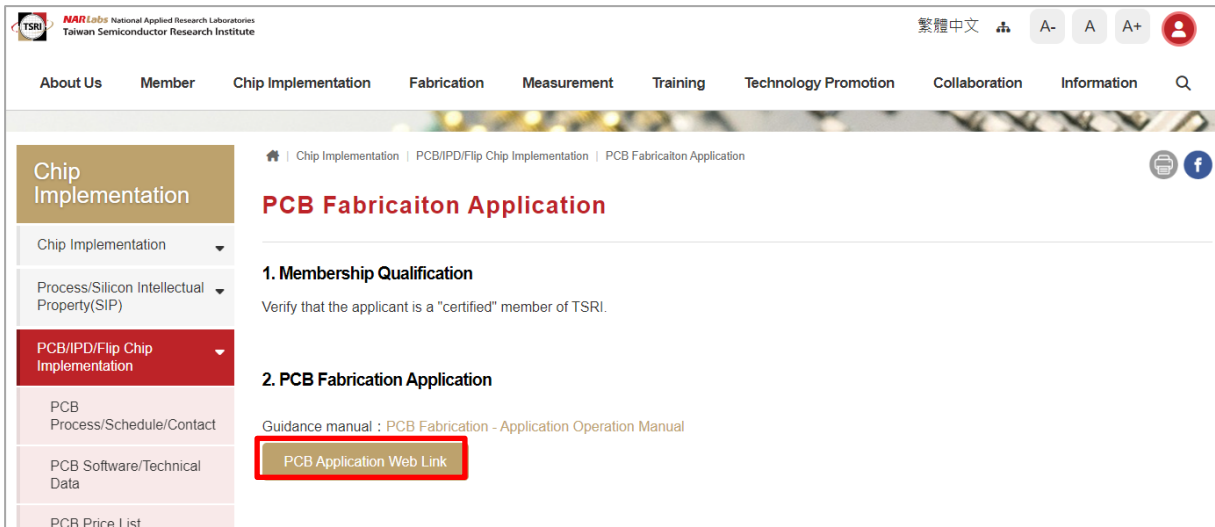
1.1 PCB Fabrication Application web page

TSRI [Chip Fabrication > PCB Fabrication Application](#)

The screenshot shows the TSRI website interface. At the top left is the TSRI logo and the text 'NAR Labs National Applied Research Laboratories Taiwan Semiconductor Research Institute'. On the top right, there are links for '繁體中文', font size controls (A-, A, A+), and a user profile icon. Below this is a horizontal navigation menu with items: 'About Us', 'Member', 'Chip Implementation', 'Fabrication', 'Measurement', 'Training', 'Technology Promotion', 'Collaboration', and 'Information'. The 'Chip Implementation' menu item is highlighted with a red box. Below the navigation menu is a grid of service categories. The categories are: 'Chip Implementation', 'Process/Silicon Intellectual Property (SIP)', 'PCB/IPD/Flip Chip Implementation', and 'Others'. Under 'Chip Implementation', there are links for 'Service Descriptions', 'Tape-out Schedule', 'Tape-out Guidelines', 'Tape-out Application', 'Test Report', 'Total Credit', 'FAQ', 'Tape-out Approval', 'Full-price Packaging/Back-end Dicing', 'Contact', and 'Price List'. Under 'Process/Silicon Intellectual Property (SIP)', there are links for 'Process/SIP Introduction', 'Process/SIP Application', 'Legal Literacy Advocacy Test', 'Technical Data Download', 'Online Assessment of Information Security', and 'Advanced Chip Lab'. Under 'PCB/IPD/Flip Chip Implementation', there are links for 'PCB', 'Process/Schedule/Contact', 'PCB Software/Technical Data', 'PCB Price List', 'PCB Fabrication Application', 'PCB Post-application Operation', and 'IPD Process Fabrication'. Under 'Others', there is a link for 'Design File Export'. The 'PCB Fabrication Application' link is highlighted with a red box.

1.2 Proceed Application

Click link "PCB Application Web Link", as figure below:



1.3 Member Login

If you did not login, please login 1st:

Member Service Platform-System Login

繁體中文 | English

User ID

User ID or Email

Password

Password

Access Code

[Forgot Account](#) | [Forgot Password](#)

LOGIN

[Not registered yet? Create an account!](#)

© 2023 <https://www.tsri.org.tw>, inc. Reserved ownership | Privacy rights

1.4 Enter “PCB Fabrication Application System”

The screenshot shows the user interface of the PCB Fabrication Application System. At the top left is the TSRI logo, followed by the text "NAR Labs National Applied Research Laboratories" and "Taiwan Semiconductor Research Institute". A language selector button labeled "繁體中文" is in the top right. The main header reads "PCB Fabrication Application System". Below this, a welcome message says "Hello, welcome to utilize TSRI PCB Fabrication Application System:". A bulleted list provides instructions: "PCB Fabrication Permission: No need to apply permission for accessing process data and technical data. The user has to apply TSRI membership only. After becoming a TSRI member, the user can download the relevant data by oneself, and proceed PCB design." and "If there is any PCB problem, please refer to [PCB Fabrication](#) web." Below the list are three buttons: "View PCB Application Summary", "Start New Application for PCB", and "Download Application Manual". On the right side, a "Related Link" section lists: "PCB Fabrication Application", "PCB Application Summary", "New Application for PCB", "PCB Payment Approval", and "PCB Historical Data".

2. Application Steps

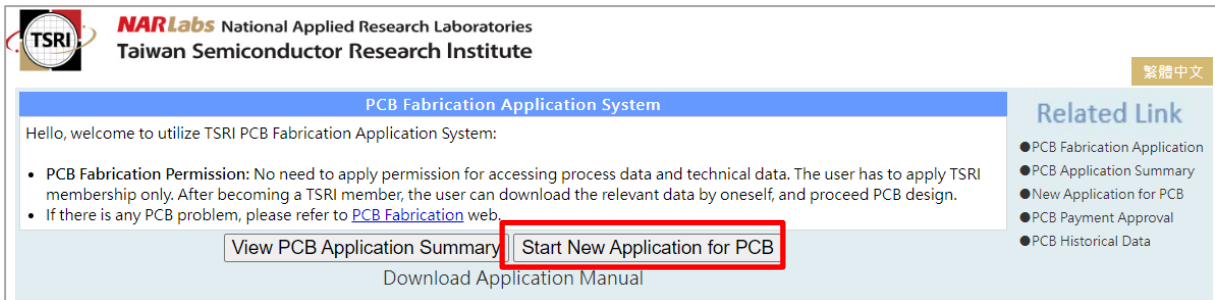
Proceed PCB Fabrication Application, Steps as following:

- (1) PCB Fabrication: New Application.
- (2) Select PCB Process, batch, and item.
- (3) Fill-in and complete "Application form".
- (4) Upload files.
- (5) Verified and send.

The details are in the following sections.

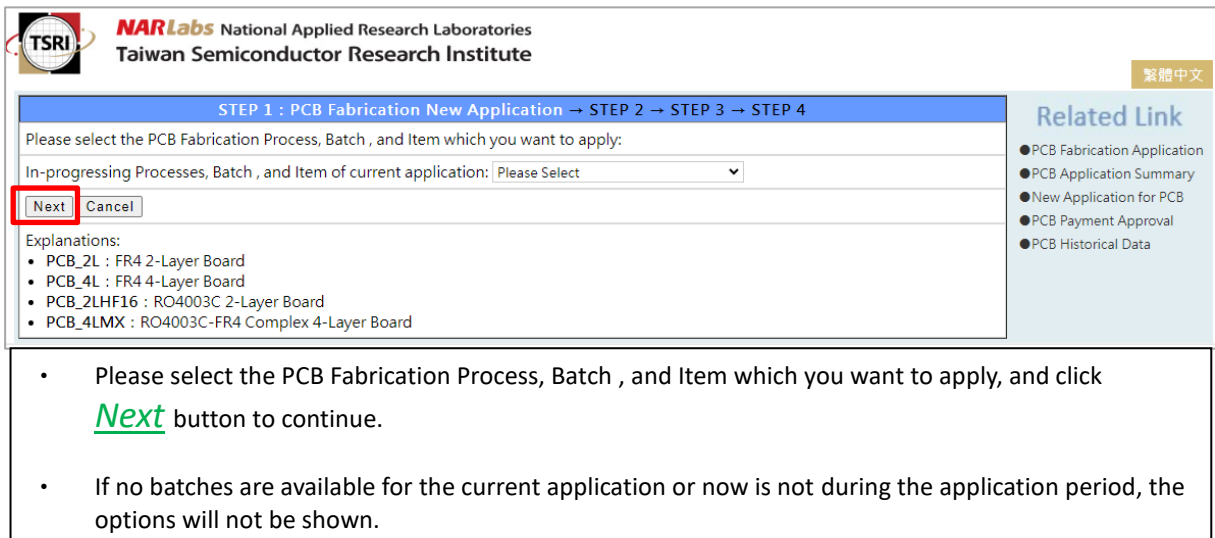
2.1 New PCB Fabrication Application

Click [Start New Application for PCB](#) button, start Application:



2.2 Select Process, Batch and Item

Refer to figure below:



2.3 Fill-in and Complete Application Form

Refer to figure below:

STEP 1 → STEP 2 : Fill in Application Form → STEP 3 → STEP 4

•Applicant Data:

Applicant / Designer : 甲老師	School : National Tsing Hua University	Department : Department/Institute of Electronic Engineering
*Identity : <input type="text" value="Master"/>	Applicant email : p1.cicetest@gmail.com	
Applicant Tel : 03-X773693	Applicant Cellular Phone : <input type="text"/>	

Professor :	Professor School :	Professor Department :
Professor Tel :	Professor email :	

Collaborative Professor :

Name	School	Department	Tel	Co-Professor email
------	--------	------------	-----	--------------------

Collaborative Designer :

Name	School	Department	Tel	Co-Designer Email
------	--------	------------	-----	-------------------

•PCB Data **ⓈPlease fill in "NA", if your application does not belong to the NSC project.**

Process : PCB_4L	Application Batch : 111X	Application Item : Partial-price PCB
*NSC Project No. : <input type="text"/>	*Project Duration : <input type="text"/>	
*Field : <input type="text" value="Microwave"/>	*Application : <input type="text" value="3C"/>	*Electrical Properties : <input type="text" value="High Frequency"/>
* PCB Identification Code : <input type="text"/>		
Marked at Silkscreen Top layer of PCB. Code format : <u>Process Code-Application Batch-Self-Naming characters</u> (4 English characters or numbers), ex:2L_102A_1A2B		
*Topics Name (in Chinese) : <input type="text"/>		
*Topics Name (in English) : <input type="text"/>		
PCB Fabrication Process official Unit Price: NTD 1,000 / Unit Area		
*PCB Unit Area No. <input type="text"/> (Note: Fill in integer ≤ 24. FR4 Unit area 5x5cm ² , RO Unit area 5.2x4.75cm ²)		
PCB Priority : <input type="text"/> (Please fill in with numbers 1, 2, 3 etc.... priority 1 >2 >3 > ...)		
PCB Remarks : <input type="text"/>		

ⓈPlease note that fields marked with * are required

Fill in the Application Form with relevant information and click Confirm

Complete Application form:



Complete Application form message

This PCB Fabrication Application no. is : PCB_4L-111X-A0045

Application form has been completed

If you want to proceed to next step, STEP 3: Click this button of [STEP 3 Upload Files](#)

[Continue to apply PCB Fabrication](#)
[View Application Form](#)
[Modify Application Form](#)
[Go back to "Application Summary"](#)

Click "STEP 3 Upload Files" button, and continue:



Complete Application form message

This PCB Fabrication Application no. is : PCB_4L-111X-A0045

Application form has been completed

If you want to proceed to next step, STEP 3: Click this button of [STEP 3 Upload Files](#)

[Continue to apply PCB Fabrication](#)
[View Application Form](#)
[Modify Application Form](#)
[Go back to "Application Summary"](#)

2.4 Upload Files

Refer to web manual [PCB Fabrication Application](#) to name the files.

See figure below:

STEP 1 → STEP 2 → STEP 3: Upload Files → STEP 4

Process Name : PCB_4L
Batch No. and Application Item : 111X - Partial-price PCB
Application No. : PCB_4L-111X-A0045

Explanation: File naming, please refer to web example file [PCB Fabrication Application > PCB Design e-file example.pdf](#)

Select uploading file, open uploading file window, and upload necessary files.

Uploading Files List :

No.	File Type	Format Explanations	File Name	Uploading Time	File Size (kb)	File has already been uploaded?	Upload File
1	*PCB Design e-file	PCB Design e-file format (*.doc, *.docx or *.docm)	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
2	*PCB Fabrication Review Form	PCB Fabrication Review Form format (*.doc, *.docx or *.docm)	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
3	*Top	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
4	*Inner_1	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
5	*Inner_2	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
6	*Bottom	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
7	*Drill	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
8	*Solder_top	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
9	*Solder_bottom	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
10	*Silkscreen_top	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
11	*Silkscreen_bottom	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
12	*Mechanical 1	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
13	*BoardOutline	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
14	*Drill Map	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
15	*DRC Report	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File
16	Others	-	NONE	NONE	NONE	File has not been uploaded yet.	Upload File

[Go back to "Application Summary"](#)

Related Link

- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

Click **Select File**, and click **Upload** button, to upload files.

Process Name : PCB_4L
Batch No. and Application Item : 111X - Partial-price PCB
Application No. : PCB_4L-111X-A0045

[Notice] 1. Please do not use space or special character as the file name.

Upload File Type :

Bottom file information	NONE	uploading status:%
file upload	Select File No Files Selected Upload	

Complete file upload.

See figure below:

Process Name : PCB_4L
Batch No. and Application Item : 111X - Partial-price PCB
Application No. : PCB_4L-111X-A0045

[Notice] 1. Please do not use space or special character as the file name.

Upload File Type :

Bottom file information	TRF.docx@2024/04/26 11:33:04	uploading status:100%
file upload	Select File TRF.docx Upload	The file upload has been completed ! File Name : TRF.docx File Size : 11.67(kb)

Complete uploading files.

Click [Go back to "Application Summary"](#) bottom

(By click right hand side link, or bottom link.):

STEP 1 → STEP 2 → STEP 3: Upload Files → STEP 4

Process Name : PCB_4L
 Batch No. and Application Item : 111X - Partial-price PCB
 Application No. : PCB_4L-111X-A0045

Explanation: File naming, please refer to web example file [PCB Fabrication Application > PCB Design e-file example.pdf](#)

Select uploading file, open uploading file window, and upload necessary files.

Uploading Files List :

No.	File Type	Format Explanations	File Name	Uploading Time	File Size (kb)	File has already been uploaded?	Upload File
1	*PCB Design e-file	PCB Design e-file format (*.doc, *.docx or *.docm)	DGN_PCB_4L_110Z_test.doc	2024/04/26 11:37:00	11.67	File has been uploaded.	Upload File
2	*PCB Fabrication Review Form	PCB Fabrication Review Form format (*.doc, *.docx or *.docm)	PCB_MRF_4L_110Z_test.doc	2024/04/26 11:37:11	11.67	File has been uploaded.	Upload File
3	*Top	-	TOP.pho	2024/04/26 11:37:17	11.67	File has been uploaded.	Upload File
4	*Inner_1	-	IN1.pho	2024/04/26 11:37:24	11.67	File has been uploaded.	Upload File
5	*Inner_2	-	IN2.pho	2024/04/26 11:37:30	11.67	File has been uploaded.	Upload File
6	*Bottom	-	BOT.pho	2024/04/26 11:33:04	11.67	File has been uploaded.	Upload File
7	*Drill	-	NCD.pho	2024/04/26 11:37:45	11.67	File has been uploaded.	Upload File
8	*Solder_top	-	SMT.pho	2024/04/26 11:37:52	11.67	File has been uploaded.	Upload File
9	*Solder_bottom	-	SMB.pho	2024/04/26 11:38:44	11.67	File has been uploaded.	Upload File
10	*Silkscreen_top	-	SST.pho	2024/04/26 11:38:37	11.67	File has been uploaded.	Upload File
11	*Silkscreen_bottom	-	SSB.pho	2024/04/26 11:38:31	11.67	File has been uploaded.	Upload File
12	*Mechanical 1	-	ME.pho	2024/04/26 11:38:24	11.67	File has been uploaded.	Upload File
13	*BoardOutline	-	BO.pho	2024/04/26 11:38:18	11.67	File has been uploaded.	Upload File
14	*Drill Map	-	DWV.pho	2024/04/26 11:38:12	11.67	File has been uploaded.	Upload File
15	*DRC Report	-	clear.lst	2024/04/26 11:38:05	11.67	File has been uploaded.	Upload File
16	Others	-	NONE	2024/04/26 11:37:59	11.67	File has been uploaded.	Upload File

[Go back to "Application Summary"](#)

Related Link

- PCB Fabrication Application
- **PCB Application Summary**
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

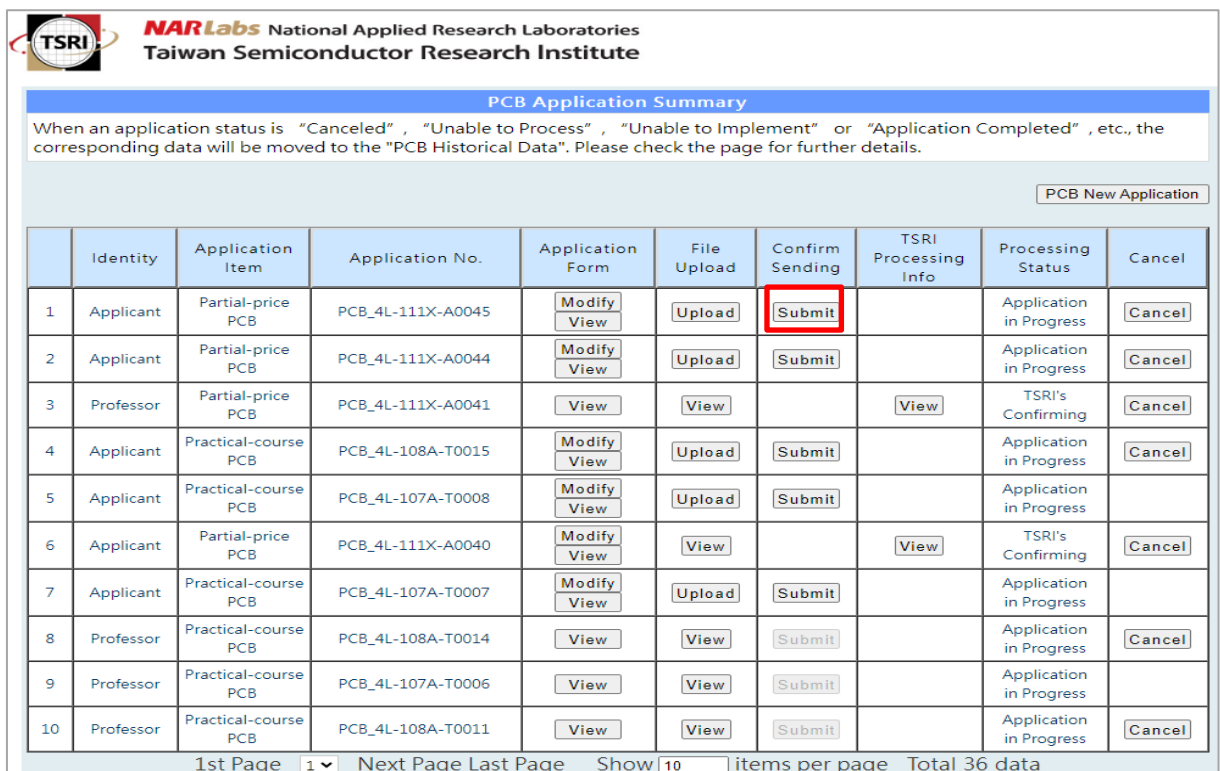
2.5 Verify and Send

Steps:

(1) Application Summary Table

Verify that all the upload files are correct.

In the [PCB Application Summary](#), click **“Submit”** button:



NAR Labs National Applied Research Laboratories
TSRI Taiwan Semiconductor Research Institute

PCB Application Summary

When an application status is "Canceled", "Unable to Process", "Unable to Implement" or "Application Completed", etc., the corresponding data will be moved to the "PCB Historical Data". Please check the page for further details.

PCB New Application

	Identity	Application Item	Application No.	Application Form	File Upload	Confirm Sending	TSRI Processing Info	Processing Status	Cancel
1	Applicant	Partial-price PCB	PCB_4L-111X-A0045	Modify View	Upload	Submit		Application in Progress	Cancel
2	Applicant	Partial-price PCB	PCB_4L-111X-A0044	Modify View	Upload	Submit		Application in Progress	Cancel
3	Professor	Partial-price PCB	PCB_4L-111X-A0041	View	View		View	TSRI's Confirming	Cancel
4	Applicant	Practical-course PCB	PCB_4L-108A-T0015	Modify View	Upload	Submit		Application in Progress	Cancel
5	Applicant	Practical-course PCB	PCB_4L-107A-T0008	Modify View	Upload	Submit		Application in Progress	
6	Applicant	Partial-price PCB	PCB_4L-111X-A0040	Modify View	View		View	TSRI's Confirming	Cancel
7	Applicant	Practical-course PCB	PCB_4L-107A-T0007	Modify View	Upload	Submit		Application in Progress	
8	Professor	Practical-course PCB	PCB_4L-108A-T0014	View	View	Submit		Application in Progress	Cancel
9	Professor	Practical-course PCB	PCB_4L-107A-T0006	View	View	Submit		Application in Progress	
10	Professor	Practical-course PCB	PCB_4L-108A-T0011	View	View	Submit		Application in Progress	Cancel

1st Page 1 Next Page Last Page Show 10 items per page Total 36 data

(2) Review and Verify

After clicking **“Submit”**, the following figure will appear.

Review and Verify [Application Form](#) and [upload files](#).

If there is no errors, click **“Confirm Sending”** button.



繁體中文

STEP 1 → STEP 2 → STEP 3 → STEP 4:Confirm Sending

Related Link

- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

NARLabs Taiwan Semiconductor Research Institute PCB Fabrication Application Form			
Application Date:2024/04/26			
Applicant Data	Applicant / Designer: 甲君	School: National Tsing Hua University	Department: Department/Institute of Electronic Engineering
	Identity: Master	Applicant Email: p1.dctest@gmail.com	
	Applicant Tel: 03-X773693	Applicant Cellular Phone:	
	Professor:	Professor School:	Professor Department:
	Professor Tel:	Professor Email:	
PCB Data	Process: PCB_4L	Application Batch: 111X	Application Item: Partial-price PCB
	PCB Identification Code: Test	Application No. :PCB_4L-111X-A0045	
	NSC Project No. :X	Project Duration: X	
	Field: Microwave	Application: 3C	Electrical Properties: High Frequency
	Topics Name (in Chinese): Test		
	Topics Name (in English): TEST		
	PCB estimate Unit Price: NTD 1000 / Unit Area		
	PCB Unit Area No. :1		
	PCB Priority:		
	PCB Remarks:		

Uploading Files List :

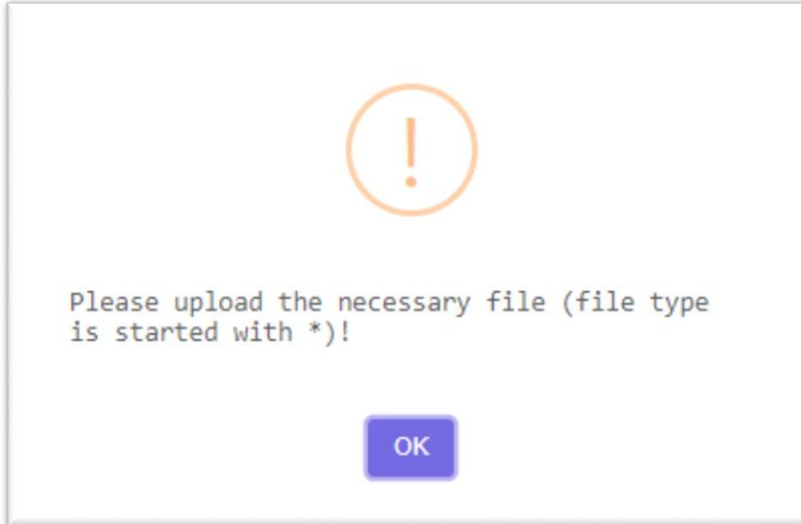
No.	File Type	Format Explanations	File Name	Uploading Time	File Size (kb)	File has already been uploaded?	Upload File
1	*PCB Design e-file	PCB Design e-file format (*.doc, *.docx or *.docm)	DGN_PCB_4L_110Z_test.doc	2024/04/26 11:37:00	11.67	File has been uploaded.	Upload File
2	*PCB Fabrication Review Form	PCB Fabrication Review Form format (*.doc, *.docx or *.docm)	PCB_MRF_4L_110Z_test.doc	2024/04/26 11:37:11	11.67	File has been uploaded.	Upload File
3	*Top	-	TOP.pho	2024/04/26 11:37:17	11.67	File has been uploaded.	Upload File
4	*Inner_1	-	IN1.pho	2024/04/26 11:37:24	11.67	File has been uploaded.	Upload File
5	*Inner_2	-	IN2.pho	2024/04/26 11:37:30	11.67	File has been uploaded.	Upload File
6	*Bottom	-	BOT.pho	2024/04/26 11:33:04	11.67	File has been uploaded.	Upload File
7	*Drill	-	NCD.pho	2024/04/26 11:37:45	11.67	File has been uploaded.	Upload File
8	*Solder_top	-	SMT.pho	2024/04/26 11:37:52	11.67	File has been uploaded.	Upload File
9	*Solder_bottom	-	SMB.pho	2024/04/26 11:38:44	11.67	File has been uploaded.	Upload File
10	*Silkscreen_top	-	SST.pho	2024/04/26 11:38:37	11.67	File has been uploaded.	Upload File
11	*Silkscreen_bottom	-	SSB.pho	2024/04/26 11:38:31	11.67	File has been uploaded.	Upload File
12	*Mechanical 1	-	ME.pho	2024/04/26 11:38:24	11.67	File has been uploaded.	Upload File
13	*BoardOutline	-	BO.pho	2024/04/26 11:38:18	11.67	File has been uploaded.	Upload File
14	*Drill Map	-	DW.pho	2024/04/26 11:38:12	11.67	File has been uploaded.	Upload File
15	*DRC Report	-	clear.lst	2024/04/26 11:38:05	11.67	File has been uploaded.	Upload File
16	Others	-	NONE	2024/04/26 11:37:59	11.67	File has been uploaded.	Upload File

Sending

If you confirmed that the Application Form and uploaded files are correct, please click the "Confirm Sending" button; if you are not sure, or want to modify the contents of Application Form and uploaded files, please go back to "Application Summary", and click this application to modify.

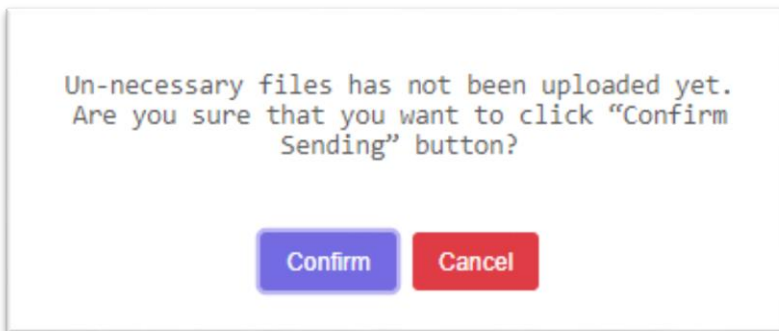
(3) Compulsory uploaded files are not uploaded

After clicking “[Confirm Sending](#)”, if there are compulsory upload files which are not uploaded, the following message will show:



(4) Optional upload files are not uploaded

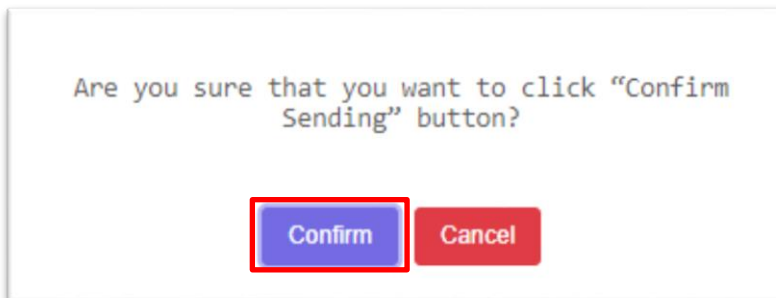
After clicking “[Confirm Sending](#)”, if there are optional upload files do not uploaded, the following message will show:



(5) Verify and Send Application

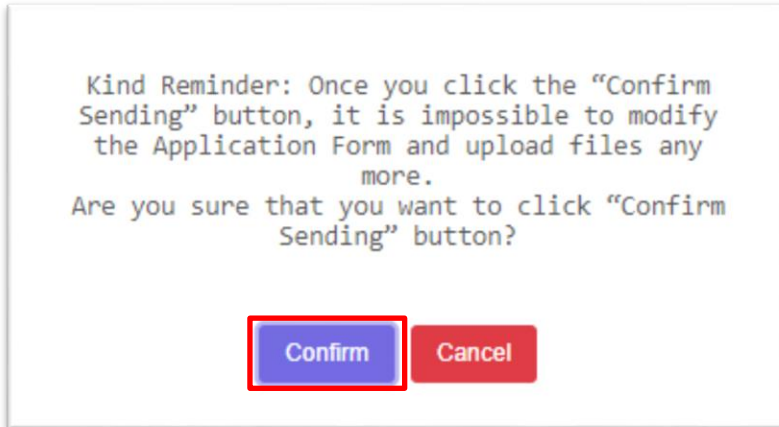
The following message will show:

Click “[Confirm](#)” if you confirm to continue

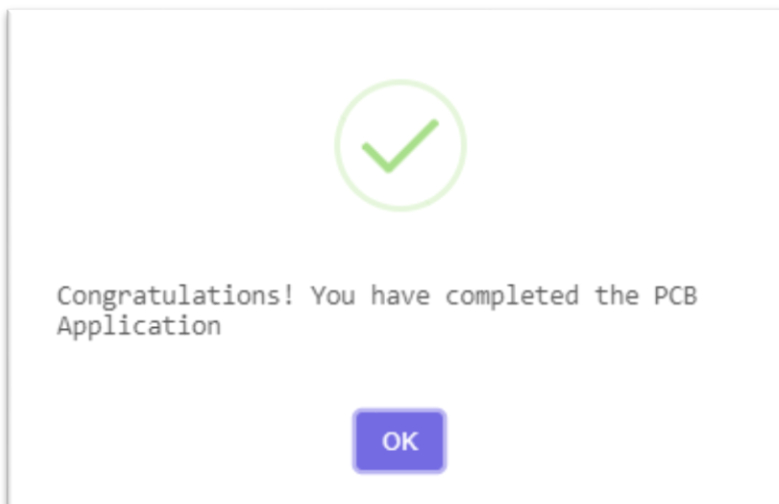


(6) Make sure to send Application

Click “**Confirm**” button if you have read the following message and you confirm to sending your PCB application.



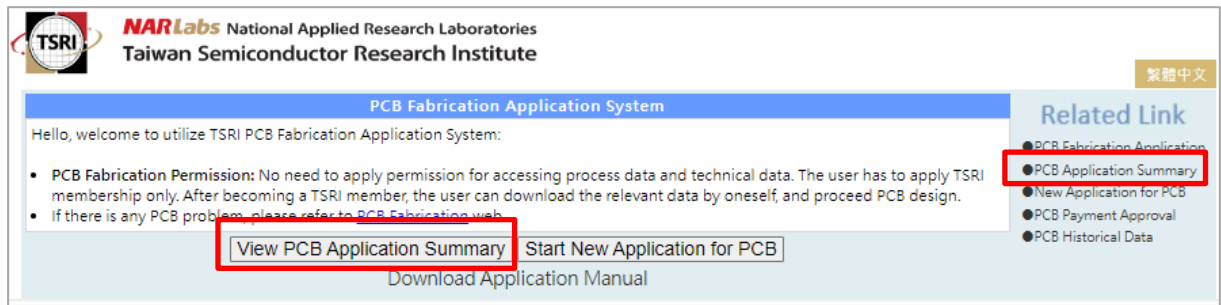
(7) Sure to send Application – Successful message



3. PCB Application Summary Table

During Application, the applicant can check PCB [Application Summary Table](#), by:

- (1) Web page right hand side link: [PCB Application Summary](#)
- (2) Web page Bottom side link: [View PCB Application Summary](#), as below:



Before application deadline:

Application document and files can be uploaded, modified, preview, or uploaded, as figure below:

4	Applicant	Practical-course PCB	PCB_4L-108A-T0015	<input type="button" value="Modify"/> <input type="button" value="View"/>	<input type="button" value="Upload"/>	<input type="button" value="Submit"/>		Application in Progress	<input type="button" value="Cancel"/>
5	Applicant	Practical-course PCB	PCB_4L-107A-T0008	<input type="button" value="Modify"/> <input type="button" value="View"/>	<input type="button" value="Upload"/>	<input type="button" value="Submit"/>		Application in Progress	

After application deadline:

Application document and files can **ONLY** be previewed, as figure below:

1	Professor	Partial-price PCB	PCB_4L-111X-A0018	<input type="button" value="View"/>	<input type="button" value="View"/>	<input type="button" value="Submit"/>		Application in Progress	<input type="button" value="Cancel"/>
2	Applicant	Partial-price PCB	PCB_2L-107A-A0006	<input type="button" value="View"/>	<input type="button" value="View"/>		<input type="button" value="View"/>	TSRI's Confirming	<input type="button" value="Cancel"/>
3	Professor	Practical-course PCB	PCB_4L-108A-T0006	<input type="button" value="View"/>	<input type="button" value="View"/>	<input type="button" value="Submit"/>		Application in Progress	<input type="button" value="Cancel"/>
4	Professor	Practical-course PCB	PCB_4L-108A-T0003	<input type="button" value="View"/>	<input type="button" value="View"/>		<input type="button" value="View"/>	TSRI's Processing	<input type="button" value="Cancel"/>

4. Related Link

Web page right hand side link:

List out all the PCB application related link.

See figure below:

TSRI NAR Labs National Applied Research Laboratories Taiwan Semiconductor Research Institute

繁體中文

PCB Application Summary

When an application status is "Canceled", "Unable to Process", "Unable to Implement" or "Application Completed", etc., the corresponding data will be moved to the "PCB Historical Data". Please check the page for further details.

PCB New Application

	Identity	Application Item	Application No.	Application Form	File Upload	Confirm Sending	TSRI Processing Info	Processing Status	Cancel
1	Professor	Partial-price PCB	PCB_4L-111X-A0018	View	View	Submit		Application in Progress	Cancel
2	Applicant	Partial-price PCB	PCB_2L-107A-A0006	View	View		View	TSRI's Confirming	Cancel
3	Professor	Practical-course PCB	PCB_4L-108A-T0006	View	View	Submit		Application in Progress	Cancel
4	Professor	Practical-course PCB	PCB_4L-108A-T0003	View	View		View	TSRI's Processing	Cancel
5	Applicant	Partial-price PCB	PCB_4L-102A-A0003	View	View		View	No need to submit a test report	
6	Applicant	Partial-price PCB	PCB_4L-102A-A0002	View	View		View	TSRI's Confirming	

1st Page Previous page 4 Last Page Show 10 items per page Total 36 data

Related Link





- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

5. Contact Window

If there is any problem, click
Web page right hand side link:

[Chip Implementation > PCB/IPD/Flip Chip Implementation > PCB Fabrication Application > PCB Process/Schedule/Contact](#), or [TSRI Customer Service](#) web page.

The screenshot shows the TSRI website interface. The top navigation bar includes links for About Us, Member, Chip Implementation, Fabrication, Measurement, Training, Technology Promotion, Collaboration, and Information. The breadcrumb trail indicates the current location: Chip Implementation > PCB/IPD/Flip Chip Implementation > PCB Process/Schedule/Contact. The main content area is titled 'PCB Process / Schedule / Contact' and is divided into two sections: 'PCB Process' and 'PCB Schedule'. The 'PCB Process' section contains a table with the following data:

PCB Process Code	PCB Fabrication Substance	Stackup	Metal Line Minimum Width / Spacing (mm)	Drill Hole Minimum / Maximum Size (mm)
PCB_2L	FR4 2-Layer Board		0.1 / 0.1	0.20 / 6.00
PCB_4L	FR4 4-Layer Board		0.1 / 0.1	0.20 / 6.00
PCB_2LHF16	RO 2-Layer High Frequency Board		0.1 / 0.1	0.20 / 6.00
PCB_4LMX	RO-FR4 4-Layer Complex Board		0.1 / 0.1	0.20 / 6.00

6. The Modification during DRC Period

After PCB Application, during DRC period, the TSRI engineer will check the application document and Gerber files.

If there is any error, TSRI engineer will contact with the applicant, and open the permission for the applicant to modify Application Form, documents, or Gerber files. The applicant should make modification and reload the files.

6.1 PCB Modifications of Recognition Code and Unit Area Number

[Member Login > Chip Implementation > PCB/IPD/Flip Chip Implementation > PCB Fabrication Application > PCB Application Web Link > View PCB Application Summary > Modify :](#)

See figure below:

NAR Labs National Applied Research Laboratories
Taiwan Semiconductor Research Institute

繁體中文

PCB Application Summary

When an application status is "Canceled", "Unable to Process", "Unable to Implement" or "Application Completed", etc., the corresponding data will be moved to the "PCB Historical Data". Please check the page for further details.

PCB New Application

Identity	Application Item	Application No.	Application Form	File Upload	Confirm Sending	TSRI Processing Info	Processing Status	Cancel
1	Applicant Partial-price PCB	PCB_4L-111X-A0045	View	View	Submit		Application Sent	Cancel
2	Applicant Partial-price PCB	PCB_4L-111X-A0044	Modify View	Upload	Submit		Application in Progress	Cancel
3	Professor Partial-price PCB	PCB_4L-111X-A0041	View	View		View	TSRI's Confirming	Cancel
4	Applicant Practical-course PCB	PCB_4L-108A-T0015	Modify View	Upload	Submit		Application in Progress	Cancel
5	Applicant Practical-course PCB	PCB_4L-107A-T0008	Modify View	Upload	Submit		Application in Progress	
6	Applicant Partial-price PCB	PCB_4L-111X-A0040	Modify View	View		View	TSRI's Confirming	Cancel
7	Applicant Practical-course PCB	PCB_4L-107A-T0007	Modify View	Upload	Submit		Application in Progress	
8	Professor Practical-course PCB	PCB_4L-108A-T0014	View	View	Submit		Application in Progress	Cancel
9	Professor Practical-course PCB	PCB_4L-107A-T0006	View	View	Submit		Application in Progress	
10	Professor Practical-course PCB	PCB_4L-108A-T0011	View	View	Submit		Application in Progress	Cancel

1st Page 1 Next Page Last Page Show 10 items per page Total 36 data

Related Link

- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data


Modify the following cells of **PCB Application Form**:

STEP 1 → STEP 2 → STEP 3 : Fill in Application Form → STEP 4									
•Applicant Data:									
Applicant/Designer : Teacher A		School : National Tsing Hua University		Department : Department/Institute of Electronic Engineering					
*Identity : <input type="text" value="Master"/>		Applicant's Email : p1.cicetest@gmail.com							
Applicant's Telephone : 03-X773693		Applicant's Cellular Phone : <input type="text"/>							
Professor :		Professor School :		Professor Department :					
Professor Tel :		Professor Email :							
Collaborative Professor : <input type="text" value="Please Select"/>									
<table border="1"><thead><tr><th>Name</th><th>School</th><th>Department</th><th>Tel</th><th>Co-Professor Email</th></tr></thead></table>					Name	School	Department	Tel	Co-Professor Email
Name	School	Department	Tel	Co-Professor Email					
Collaborative Designer : <input type="text" value="Please Select"/>									
<table border="1"><thead><tr><th>Name</th><th>School</th><th>Department</th><th>Tel</th><th>Co-Designer Email</th></tr></thead></table>					Name	School	Department	Tel	Co-Designer Email
Name	School	Department	Tel	Co-Designer Email					
•PCB Data									
Application No. : PCB_4L-111X-A0044									
Process : PCB_4L		Application Batch : 111X		Application Item : Partial-price PCB					
*NSC Project No. : <input type="text" value="X"/>		*Project Duration : <input type="text" value="59595"/>							
*Field : <input type="text" value="Microwave"/>		*Application : <input type="text" value="3C"/>		*Electrical Properties : <input type="text" value="High Frequency"/>					
* PCB Identification Code : <input type="text" value="2L_102A_1A2B"/> Marked at Silkscreen Top layer of PCB. Code format : Process Code-Application Batch-Self-Naming characters (4 English characters or numbers), ex:2L_102A_1A2B									
*Topics Name (in Chinese) : <input type="text" value="TEST"/>									
*Topics Name (in English) : <input type="text" value="TEST"/>									
PCB Fabrication Process official Unit Price: NTD 1,000 / Unit Area									
*PCB Unit Area No. <input type="text" value="1"/> (Note: Fill in integer ≤ 24. FR4 Unit area 5x5cm ² , RO Unit area 5.2x4.75cm ²)									
PCB Priority : <input type="text"/> (Please fill in with numbers 1, 2, 3 etc.... priority 1 >2 >3 > ...)									
PCB Remarks : <input type="text"/>									
<input type="button" value="Confirm"/> Go back to "PCB Application Summary"									

After modification, click the **“Confirm”** button, and the applicant can no longer modify anything. ◦

6.2 Reload Files

[Member Login](#) > [Chip Implementation](#) > [PCB/IPD/Flip Chip Implementation](#) > [PCB Fabrication Application](#) > [PCB Application Web Link](#) > [View PCB Application Summary](#) > [Upload:](#)



NAR Labs National Applied Research Laboratories
Taiwan Semiconductor Research Institute

繁體中文

PCB Application Summary

When an application status is "Canceled", "Unable to Process", "Unable to Implement" or "Application Completed", etc., the corresponding data will be moved to the "PCB Historical Data". Please check the page for further details.

Related Link

- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

PCB New Application

	Identity	Application Item	Application No.	Application Form	File Upload	Confirm Sending	TSRI Processing Info	Processing Status	Cancel
1	Applicant	Partial-price PCB	PCB_4L-111X-A0045	View	View	Submit		Application Sent	Cancel
2	Applicant	Partial-price PCB	PCB_4L-111X-A0044	Modify View	Upload	Submit		Application in Progress	Cancel
3	Professor	Partial-price PCB	PCB_4L-111X-A0041	View	View		View	TSRI's Confirming	Cancel
4	Applicant	Practical-course PCB	PCB_4L-108A-T0015	Modify View	Upload	Submit		Application in Progress	Cancel
5	Applicant	Practical-course PCB	PCB_4L-107A-T0008	Modify View	Upload	Submit		Application in Progress	
6	Applicant	Partial-price PCB	PCB_4L-111X-A0040	Modify View	View		View	TSRI's Confirming	Cancel
7	Applicant	Practical-course PCB	PCB_4L-107A-T0007	Modify View	Upload	Submit		Application in Progress	
8	Professor	Practical-course PCB	PCB_4L-108A-T0014	View	View	Submit		Application in Progress	Cancel
9	Professor	Practical-course PCB	PCB_4L-107A-T0006	View	View	Submit		Application in Progress	
10	Professor	Practical-course PCB	PCB_4L-108A-T0011	View	View	Submit		Application in Progress	Cancel


1st Page 1 ▾ Next Page Last Page Show 10 items per page Total 36 data

The applicant can reload as many times as wish, until the permission is closed by TSRI engineer.

7. File Download

The member can login anytime, and download uploaded files, by:

[Member Login > Chip Implementation > PCB/IPD/Flip Chip Implementation > PCB Fabrication Application > PCB Application Web Link > View PCB Application Summary > View \(in File Upload column\):](#)

**NAR Labs** National Applied Research Laboratories
Taiwan Semiconductor Research Institute

[繁體中文](#)

PCB Application Summary

When an application status is "Canceled", "Unable to Process", "Unable to Implement" or "Application Completed", etc., the corresponding data will be moved to the "PCB Historical Data". Please check the page for further details.

[PCB New Application](#)

	Identity	Application Item	Application No.	Application Form	File Upload	Confirm Sending	TSRI Processing Info	Processing Status	Cancel
1	Applicant	Partial-price PCB	PCB_4L-111X-A0045	View	View	Submit		Application Sent	Cancel
2	Applicant	Partial-price PCB	PCB_4L-111X-A0044	Modify View	Upload	Submit		Application in Progress	Cancel
3	Professor	Partial-price PCB	PCB_4L-111X-A0041	View	View		View	TSRI's Confirming	Cancel
4	Applicant	Practical-course PCB	PCB_4L-108A-T0015	Modify View	Upload	Submit		Application in Progress	Cancel
5	Applicant	Practical-course PCB	PCB_4L-107A-T0008	Modify View	Upload	Submit		Application in Progress	
6	Applicant	Partial-price PCB	PCB_4L-111X-A0040	Modify View	View		View	TSRI's Confirming	Cancel
7	Applicant	Practical-course PCB	PCB_4L-107A-T0007	Modify View	Upload	Submit		Application in Progress	
8	Professor	Practical-course PCB	PCB_4L-108A-T0014	View	View	Submit		Application in Progress	Cancel
9	Professor	Practical-course PCB	PCB_4L-107A-T0006	View	View	Submit		Application in Progress	
10	Professor	Practical-course PCB	PCB_4L-108A-T0011	View	View	Submit		Application in Progress	Cancel

1st Page 1 Next Page Last Page Show 10 items per page Total 36 data

Related Link

- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

File Name > Click the appropriate file, such as [TOP.pho](#) ...etc.

No.	File Type	Format Explanations	File Name	Uploading Time	File Size (kb)	File has already been uploaded?	Upload File
1	*PCB Design e-file	PCB Design e-file format (*.doc, *.docx or *.docm)	DGN_PCB_4L_110Z_test.doc	2024/04/26 11:37:00	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
2	*PCB Fabrication Review Form	PCB Fabrication Review Form format (*.doc, *.docx or *.docm)	PCB_MRF_4L_110Z_test.doc	2024/04/26 11:37:11	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
3	*Top	-	TOP.pho	2024/04/26 11:37:17	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
4	*Inner_1	-	IN1.pho	2024/04/26 11:37:24	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
5	*Inner_2	-	IN2.pho	2024/04/26 11:37:30	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
6	*Bottom	-	BOT.pho	2024/04/26 11:33:04	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
7	*Drill	-	NCD.pho	2024/04/26 11:37:45	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
8	*Solder_top	-	SMT.pho	2024/04/26 11:37:52	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
9	*Solder_bottom	-	SMB.pho	2024/04/26 11:38:44	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
10	*Silkscreen_top	-	SST.pho	2024/04/26 11:38:37	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
11	*Silkscreen_bottom	-	SSB.pho	2024/04/26 11:38:31	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
12	*Mechanical 1	-	ME.pho	2024/04/26 11:38:24	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
13	*BoardOutline	-	BO.pho	2024/04/26 11:38:18	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
14	*Drill Map	-	DW.pho	2024/04/26 11:38:12	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
15	*DRC Report	-	clear.lst	2024/04/26 11:38:05	11.67	File has been uploaded.	<input type="button" value="Upload File"/>
16	Others	-	NONE	2024/04/26 11:37:59	11.67	File has been uploaded.	<input type="button" value="Upload File"/>

8. Application Cancellation

The applicant or professor can cancel application before Payment Approval Deadline.

[Member Login > Chip Implementation > PCB/IPD/Flip Chip Implementation > PCB Fabrication Application > PCB Application Web Link > View PCB Application Summary > Cancel:](#)

NAR Labs National Applied Research Laboratories
Taiwan Semiconductor Research Institute

繁體中文

PCB Application Summary

When an application status is "Canceled", "Unable to Process", "Unable to Implement" or "Application Completed", etc., the corresponding data will be moved to the "PCB Historical Data". Please check the page for further details.

PCB New Application

No.	Identity	Application Item	Application No.	Application Form	File Upload	Confirm Sending	TSRI Processing Info	Processing Status	Cancel
1	Applicant	Partial-price PCB	PCB_4L-111X-A0045	View	View	Submit		Application Sent	Cancel
2	Applicant	Partial-price PCB	PCB_4L-111X-A0044	Modify View	Upload	Submit		Application in Progress	Cancel
3	Professor	Partial-price PCB	PCB_4L-111X-A0041	View	View		View	TSRI's Confirming	Cancel
4	Applicant	Practical-course PCB	PCB_4L-108A-T0015	Modify View	Upload	Submit		Application in Progress	Cancel
5	Applicant	Practical-course PCB	PCB_4L-107A-T0008	Modify View	Upload	Submit		Application in Progress	
6	Applicant	Partial-price PCB	PCB_4L-111X-A0040	Modify View	View		View	TSRI's Confirming	Cancel
7	Applicant	Practical-course PCB	PCB_4L-107A-T0007	Modify View	Upload	Submit		Application in Progress	
8	Professor	Practical-course PCB	PCB_4L-108A-T0014	View	View	Submit		Application in Progress	Cancel
9	Professor	Practical-course PCB	PCB_4L-107A-T0006	View	View	Submit		Application in Progress	
10	Professor	Practical-course PCB	PCB_4L-108A-T0011	View	View	Submit		Application in Progress	Cancel

1st Page 1 Next Page Last Page Show 10 items per page Total 36 data

Related Link

- PCB Fabrication Application
- PCB Application Summary
- New Application for PCB
- PCB Payment Approval
- PCB Historical Data

The above is the content of this manual.