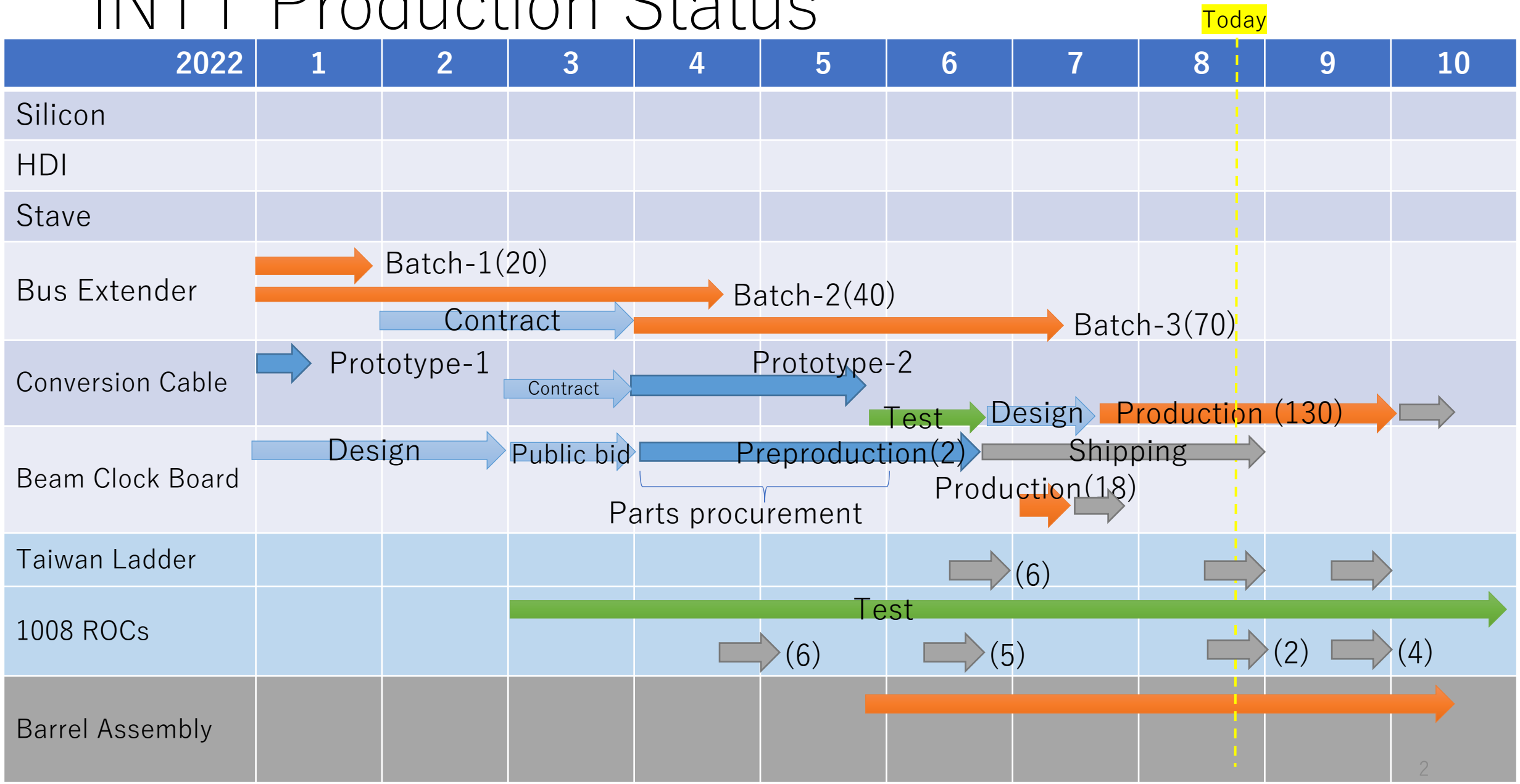
Production Status

RIKEN/RBRC

Itaru Nakagawa

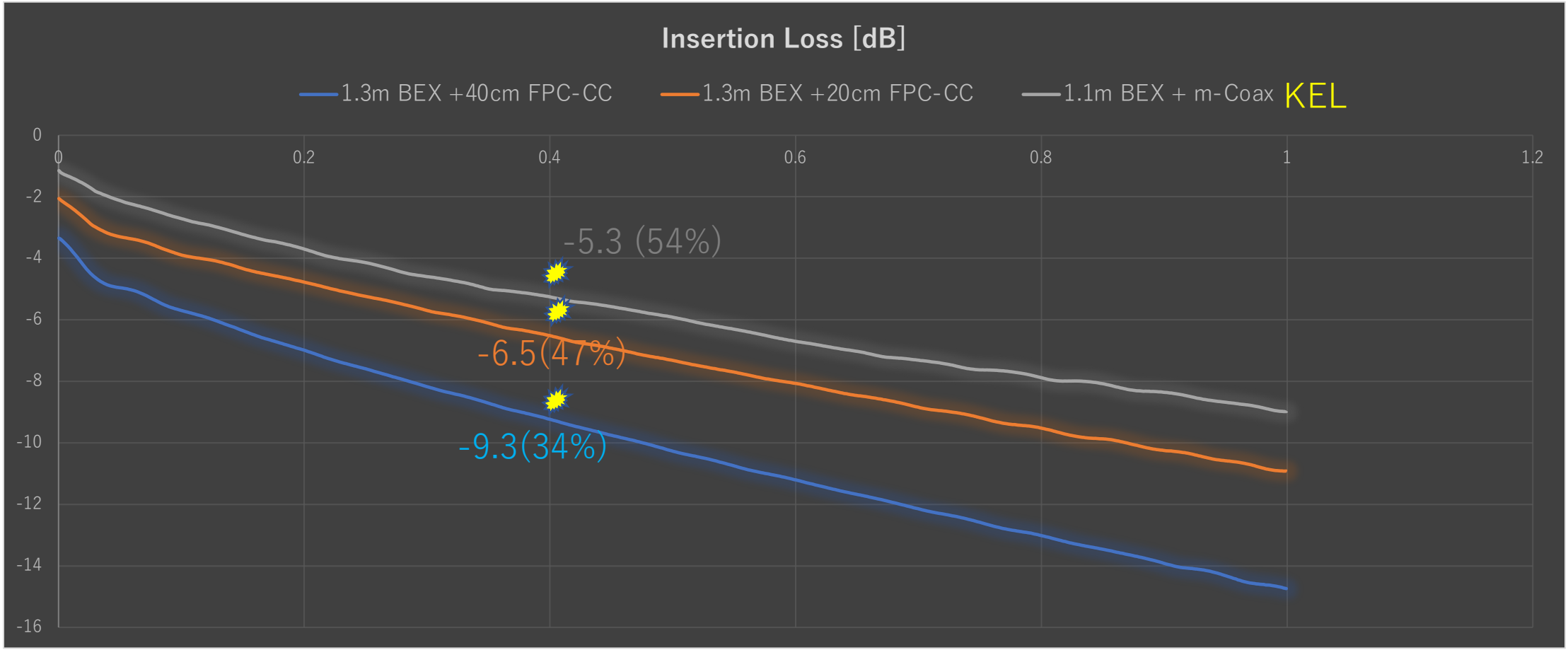
INTT Production Status



μ-Coax Cable

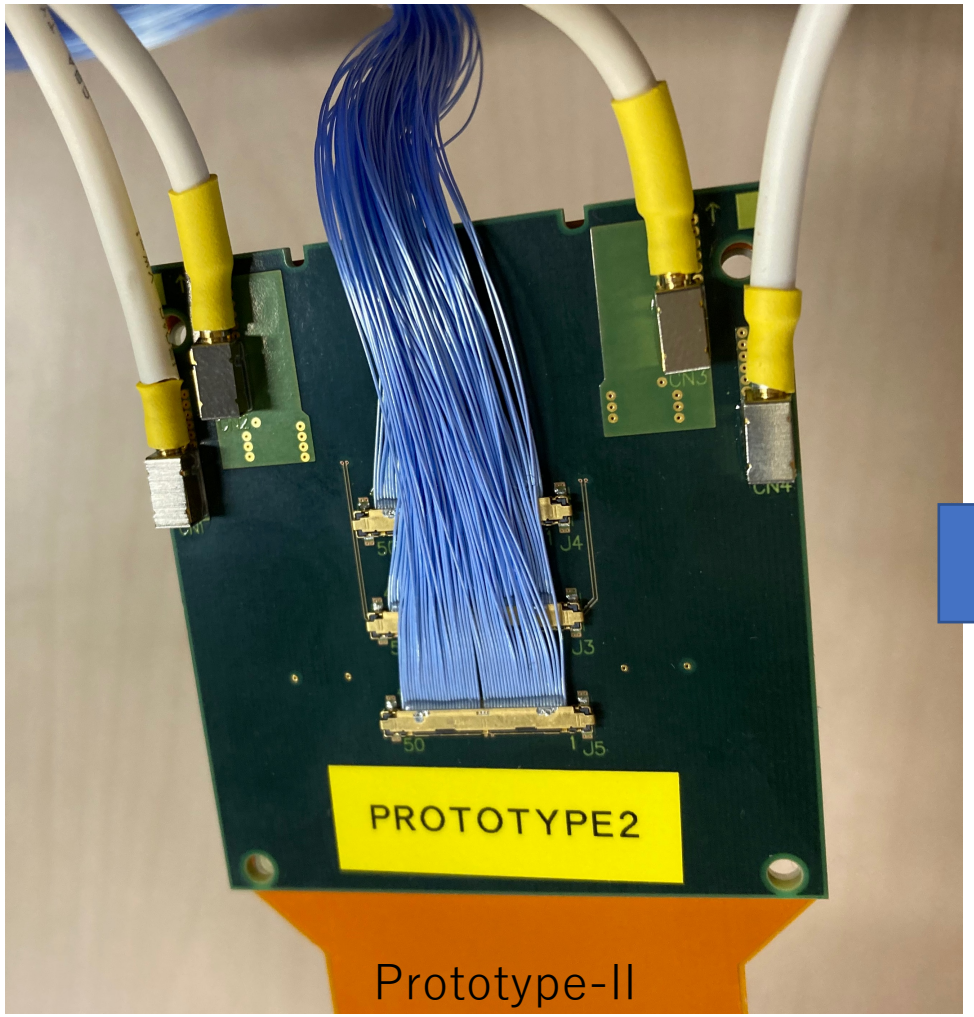
Transmission Performance Measurement of I-PEX μ-Coax

Scheduled on August 29th at TIRI

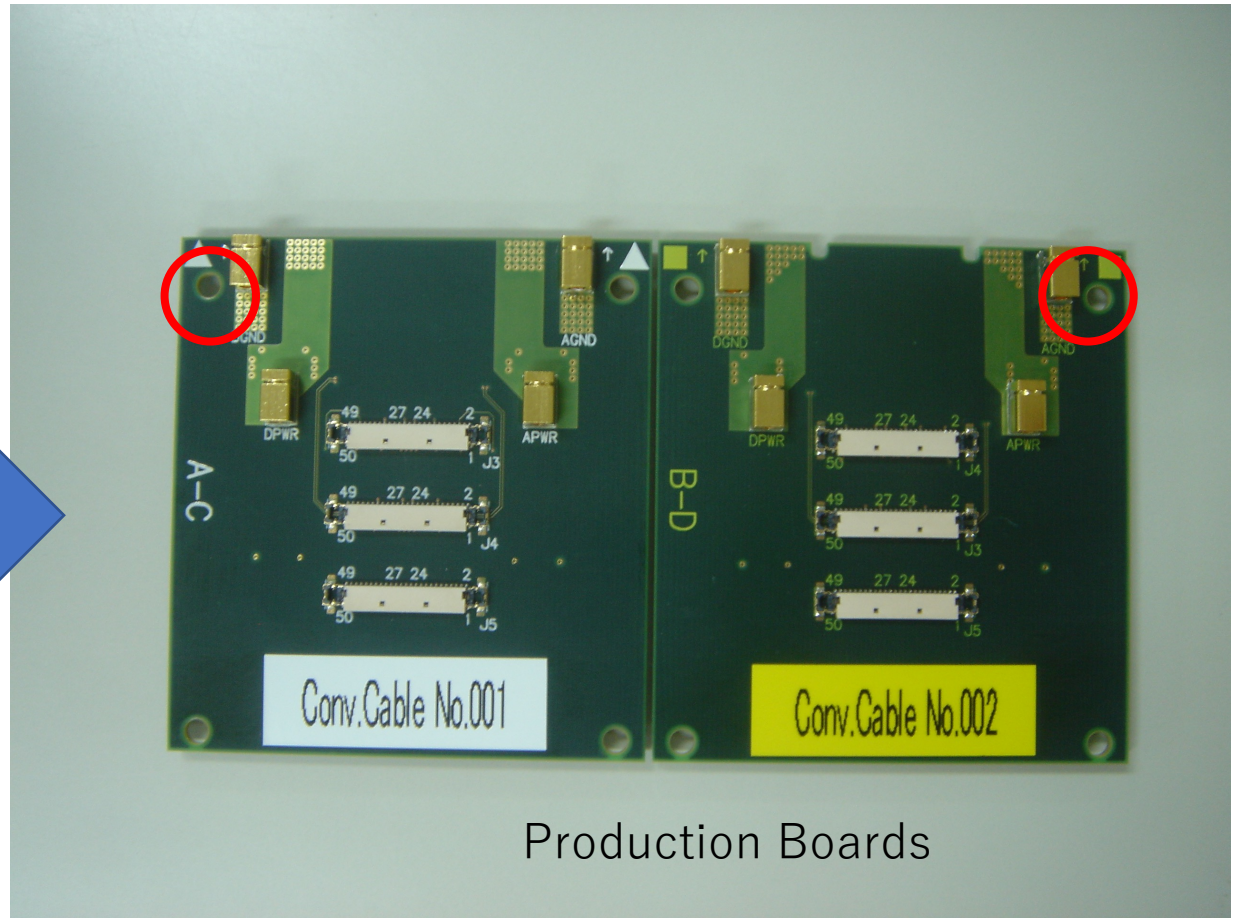


sParameters, TDR impedance, eye-diagram measurements for I-PEX m-coax + 1.1m BEX

Modified Board for μ-Coax Production



Prototype-II



Production Boards

Beam Clock Board and Cable

Production Beam Clock Boards Exporting

- Rejected at US custom for supplemental materials.
- The additional materials are ready by now.
- Negotiation with the shipping company for another attempt is ongoing.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
FOOD AND DRUG ADMINISTRATION

DECLARATION FOR IMPORTED ELECTRONIC PRODUCTS SUBJECT TO RADIATION CONTROL STANDARDS

Form Approved OMB No. 0910-0025
Expiration Date: August 31, 2023

INSTRUCTIONS
1. If submitting entries electronically through ACS/ABI, hold FDA-2877 in entry file. Do not submit to FDA unless requested.
2. If submitting paper entry documents, submit the following to FDA:
   a. 2 copies of Customs Entry Form (e.g. CF 3461, CF 3461 Alt, CF 7501, etc.)
   b. 1 copy of FDA 2877
   c. Commercial Invoice(s) in English.

U.S. CUSTOMS PORT OF ENTRY | ENTRY NUMBER | DATE OF ENTRY

NAME & ADDRESS OF MANUFACTURING SITE; COUNTRY OF ORIGIN
ARS CO.,LTD.
2F Sumitomoseimei BLDG,4-22-3,Kamata,Ota-ku
Tokyo, 144-0052 Japan

NAME & ADDRESS OF IMPORTER & ULTIMATE CONSIGNEE *(if not importer)*
Dr. Rachid Nouicer
Brookhaven National Laboratory
20 Pennsylvania Avenue, Bldg.510
Upton, NY 11973-500 U.S.A

PRODUCT DESCRIPTION
The beam clock distribution circuit board receives 9.4MHz and 18.8MHz clock optical signals and converts them into electrical signals. The converted electrical signals are then distributes to two outputs.

QUANTITY *(Items/Containers)*: 18

MODEL NUMBER(S) & BRAND NAME(S): 126Y_267963_REV.B

DECLARATION: I / WE DECLARE THAT THE PRODUCTS IDENTIFIED ABOVE: ***(Mark X applicable statements, fill in blanks, & sign)***

☑ **A. ARE NOT SUBJECT TO RADIATION PERFORMANCE STANDARDS BECAUSE THEY:**
- ☐ 1. Were manufactured prior to the effective date of any applicable standard; Date of Manufacture _____.
- ☑ 2. Are excluded by the applicability clause or definition in the standard or by FDA written guidance.
  Specify reason for exclusion low intensity optical transmitter and thus not applicable
- ☐ 3. Are personal household goods of an individual entering the U.S. or being returned to a U.S. resident. (Limit: 3 of each product type).
- ☐ 4. Are property of a party residing outside the U.S. and will be returned to the owner after repair or servicing.
- ☐ 5. Are components or subassemblies to be used in manufacturing or as replacement parts (NOT APPLICABLE to diagnostic x-ray parts).
- ☐ 6. Are prototypes intended for on going product development by the importing firm, are labeled "FOR TEST/EVALUATION ONLY," and will be exported, destroyed, or held for future testing (i.e., not distributed). (Quantities Limited - see reverse.)
- ☐ 7. Are being reprocessed in accordance with P.L. 104-134 or other FDA guidance, are labeled "FOR EXPORT ONLY," and will not be sold, distributed, or transferred without FDA approval.

☐ **B. COMPLY WITH THE PERFORMANCE STANDARDS** WHICH ARE APPLICABLE AT DATE OF MANUFACTURE AND THAT A CERTIFICATION LABEL OR TAG TO THIS EFFECT IS AFFIXED TO EACH PRODUCT. COMPLIANCE DOCUMENTED IN:
- ☐ 1. Last annual report or Product/Initial report
  _____ ACCESSION NUMBER of Report _____ Name of MANUFACTURER OF RECORD *(Filed report with FDA/CDRH)*
- ☐ 2. Unknown manufacturer or report number; State reason: _____

☐ **C. DO NOT COMPLY WITH PERFORMANCE STANDARDS;** ARE BEING HELD UNDER A TEMPORARY IMPORT BOND; WILL NOT BE INTRODUCED INTO COMMERCE; WILL BE USED UNDER A RADIATION PROTECTION PLAN; AND WILL BE DESTROYED OR EXPORTED UNDER U.S. CUSTOMS SUPERVISION WHEN THE FOLLOWING MISSION IS COMPLETE:
- ☐ 1. Research, Investigations/Studies, or Training (attach Form FDA 766)
- ☐ 2. Trade Show/Demonstration; List dates & use restrictions _____.

☐ **D. DO NOT COMPLY WITH PERFORMANCE STANDARDS;** ARE HELD AND WILL REMAIN UNDER BOND; AND WILL NOT BE INTRODUCED INTO COMMERCE UNTIL NOTIFICATION IS RECEIVED FROM FDA THAT PRODUCTS HAVE BEEN BROUGHT INTO COMPLIANCE IN ACCORDANCE WITH AN FDA APPROVED PETITION. *(See Form FDA 766.)*
☐ 1. Approved Petition is attached. ☐ 2. Petition Request is attached. ☐ 3. Request will be submitted within 60 days.

WARNING: Any person who knowingly makes a false declaration may be fined not more than $10,000 or imprisoned not more than 5 years or both, pursuant to Title 18 U.S.C. 1001. Any person importing a non-compliant electronic product may also be subject to civil penalties of $1000 per violation, up to a maximum $300,000 for related violations pursuant to Title 21 U.S.C. 360pp.

SIGNATURE OF IMPORTER OF RECORD: Itaru Nakagawa

NAME AND TITLE OF RESPONSIBLE PERSON: Itaru Nakagawa, Dedicated Scientist

Public reporting burden for this collection of information is estimated to average 0.2 hour per response, including the time to review instructions, search existing data sources, gather and maintain the data needed and complete and review the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to:

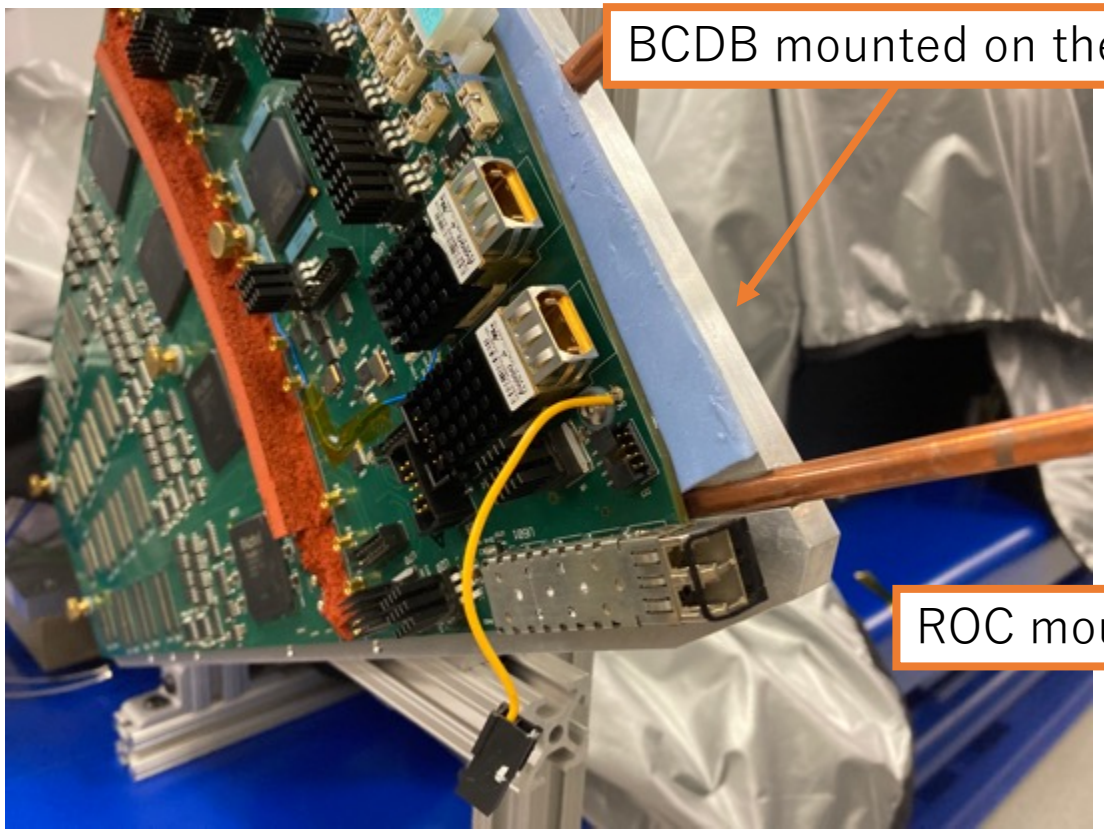
Department of Health and Human Services
Food and Drug Administration
Office of Chief Information Officer
Paperwork Reduction Act (PRA) Staff
PRAStaff@fda.hhs.gov

Do not send your completed form to the PRA Staff email address to the left.
An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

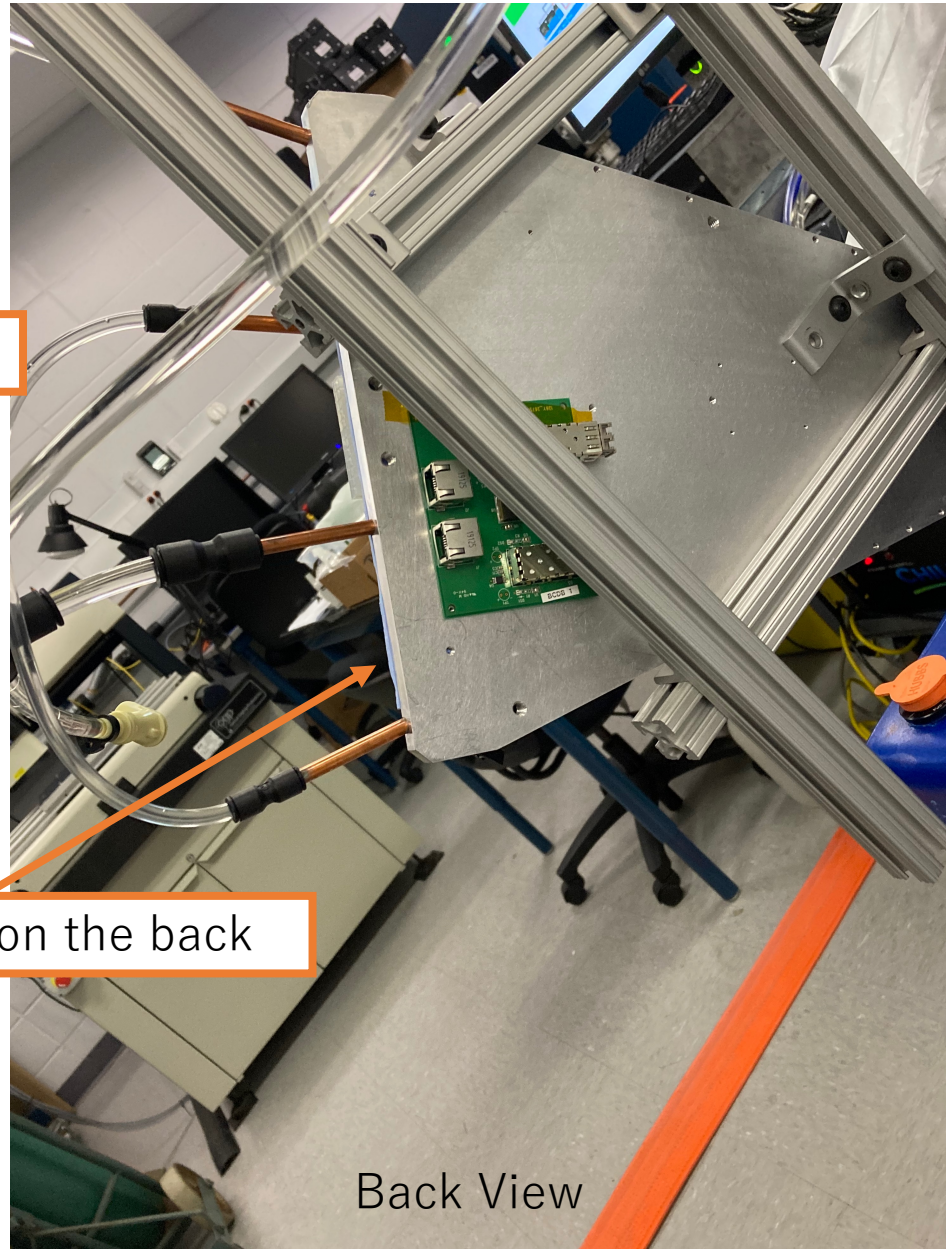
FORM FDA 2877 (9/20) PREVIOUS EDITION IS OBSOLETE. PSC Publishing Services (301) 443-6740 PAGE 1 OF 2 PAGES EF

- At least approved by BNL shipping department
- Negotiation with the shipping company is now underway for the cost of 2nd attempt.

ROC and BCB Mount



Front View



Back View

Choice of Beam Clock Cable

Category-6A Cable is too stiff to bend in sharp angle

Employ Category 6 Cable instead of 6A.

1008 ROC Test Status

1008 ROC Test Status

Index	ROC #	FVTX	Regulator Upgrade	Location	Class	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	Issue	Status
1	6	NW2	✓	BNL	1														
2	13	NE4	✓	BNL	1														
3	18	NE1	✓	BNL	1														
4	26	SE3	✓	BNL	1														
5	28	SE0	✓	BNL	1														
6	29	-	✓	BNL	1														
7	20	SW5	✓	BNL	1														
8	22	SE2	✓	BNL	1														
9	23	SE1	✓	BNL	1														
10	31	NW1	✓	BNL	1	R	R	R											
11	32	NE2	✓	BNL	1							R	R	R					
12	19	NE5	✓	BNL	3										F			Fiber Sync	Debug w/ John K.
13	9	-	✓	BNL	1			R											
14	24	SE4	✓	BNL	2			F							F			Fiber Sync	Waiting for NE5 debug
15	16	NE3	✓	BNL	3				C	C	C							Calib Pulse	Waiting for SC-FPGA downlaod
14	15	NE0	✓	RKN	2	F									F			Fiber Sync	Waiting for NE5 debug
16	2	NW4	✓	RKN	3														
19	7	-	✓	RKN	3													Fiber Sync	Replaced all DF18
17	21	-	✓	REPIC	3	R			C		R		R		C				
18	10	-	✓	REPIC	3					R									
15	17	NW3	✓	REPIC	2				F									Fiber Sync	Waiting for NE5 debug
20	3	NW5		REPIC		F											F		
21	27	SE5		REPIC											P	P	P	No fiber light	L12 be replaced
22	14	NE1		REPIC								C	C	C	P	P	P	Calib Pulse	

Shipping today

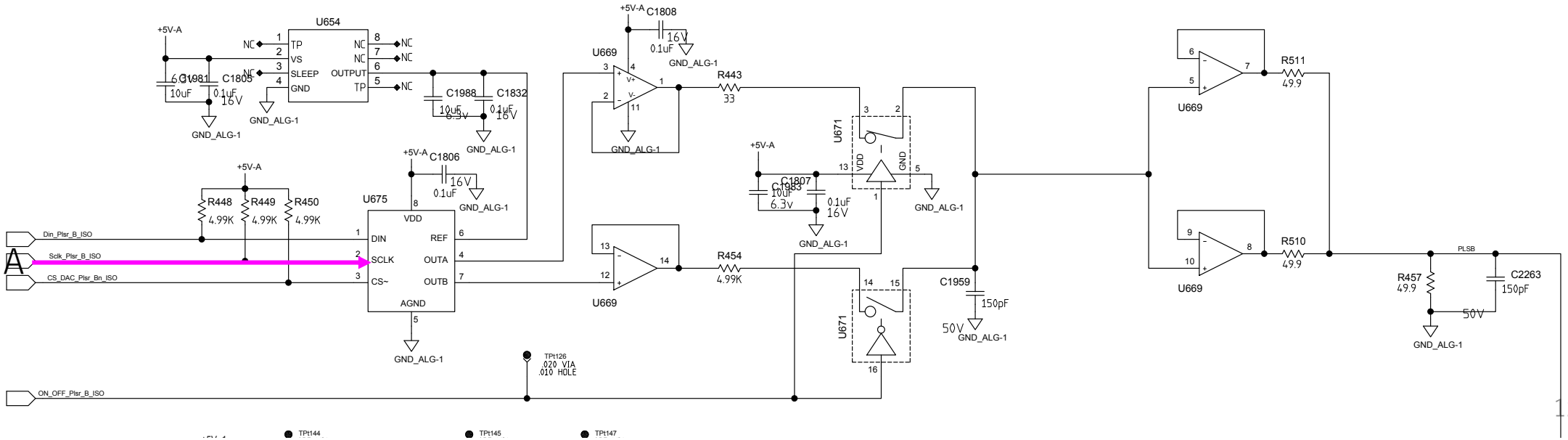
Completed testing

ROC Export to BNL

- ROC9 & SE4 are to be mounted in the barrel.
- NE3 B-ports : Missing SCLK signal from SC-FPGA to DAC. This ROC can be used for 2nd Felix Server test bench as well as ROC FPGA development.

13	9	-	✓	BNL	1			R										
14	24	SE4	✓	BNL	2			F							F			Fiber Sync	Waiting for NE5 debug
15	16	NE3	✓	BNL	3				C	C	C							Calib Pulse	Waiting for SC-FPGA downlaod

SC FPGA



BNL-ROC Test Status

This work is done by Tomoya Kato, Ryota Shishikura, Kazuma Fujiki

Index	ROC #	FVTX	Regulator Upgrade	Location	Class	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3
19	21	-	✓	RKN	2	R			U767		R		R	DF18	U768		
20	10	-	✓	RKN	2					R		DF18					
21	17	NW3	✓	RKN	3				FEM6×							DF18	
22	3	NW5		RKN		F		DF18							DF18	DF18	FEM2×
23	27	SE5		RKN								DF18			L12		
24	14	NE1		RKN					FPHX Regulator			U164			L12		

- Completed testing and pinpointed the cause of the problems.
- ROCs are now in the Hayashi-REPIC co. to repair damaged components and regulator upgrades.

Plan

Index	ROC #	FVTX	Regulator Upgrade	Location	Class	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	Issue	Status
1	6	NW2	✓	BNL	1														
2	13	NE4	✓	BNL	1														
3	18	NE1	✓	BNL	1														
4	26	SE3	✓	BNL	1														
5	28	SE0	✓	BNL	1														
6	29	-	✓	BNL	1														
7	20	SW5	✓	BNL	1														
8	22	SE2	✓	BNL	1														
9	23	SE1	✓	BNL	1														
10	31	NW1	✓	BNL	1	R	R	R											
11	32	NE2	✓	BNL	1							R	R	R					
12	19	NE5	✓	BNL	3										F			Fiber Sync	Debug w/ John K.
13	9	-	✓	BNL	1			R											
14	24	SE4	✓	BNL	2			F							F			Fiber Sync	Waiting for NE5 debug
15	16	NE3	✓	BNL	3				C	C	C							Calib Pulse	Waiting for SC-FPGA downlaod
14	15	NE0	✓	RKN	2	F									F			Fiber Sync	Waiting for NE5 debug
16	2	NW4	✓	RKN	3														
19	7	-	✓	RKN	3													Fiber Sync	Replaced all DF18
17	21	-	✓	REPIC	3	R			C		R		R		C				
18	10	-	✓	REPIC	3					R									
15	17	NW3	✓	REPIC	2				F									Fiber Sync	Waiting for NE5 debug
20	3	NW5		REPIC		F											F		
21	27	SE5		REPIC											P	P	P	No fiber light	L12 be replaced
22	14	NE1		REPIC								C	C	C	P	P	P	Calib Pulse	

Continue debugging