

# General Update

- NRDZ NSF proposal funded
- SPR
  - Install of additional 30A sockets for rack power supply
  - Additional rack for NRDZ storage nodes and equipment
- Other
  - Attemplifier modules construction DONE
  - Wire harness construction for Antonio Feeds
  - SRI equipment relocation DONE
  - Quotes to replace / install new heating
- Documentation:
  - Uploaded memos to GitHub
  - In process of writing up Attemplifier and RFSOC design
- CHIME:
  - Agreement waiting to hear back from McGill
  - Geotechnical quote ready will move forward
  - Clearing field quote ready
  - Additional documents prepared for Shasta County
- Antonio Feed
  - Feed 007 retuned and installed on 3L
  - Production of 6 additional feed Pyramids
  - Planning phase for construction of three additional feeds using spare parts.
  - Testing LNAs for new build pyramids
  - Get anechoic chamber from Minex
- ATA full buildout
  - PAM design and prototype
  - PAX control board (Mike / Todd)
  - Drive box control board
  - Control box replacement
  - Antenna PSU retrofit



## Vibration environment:

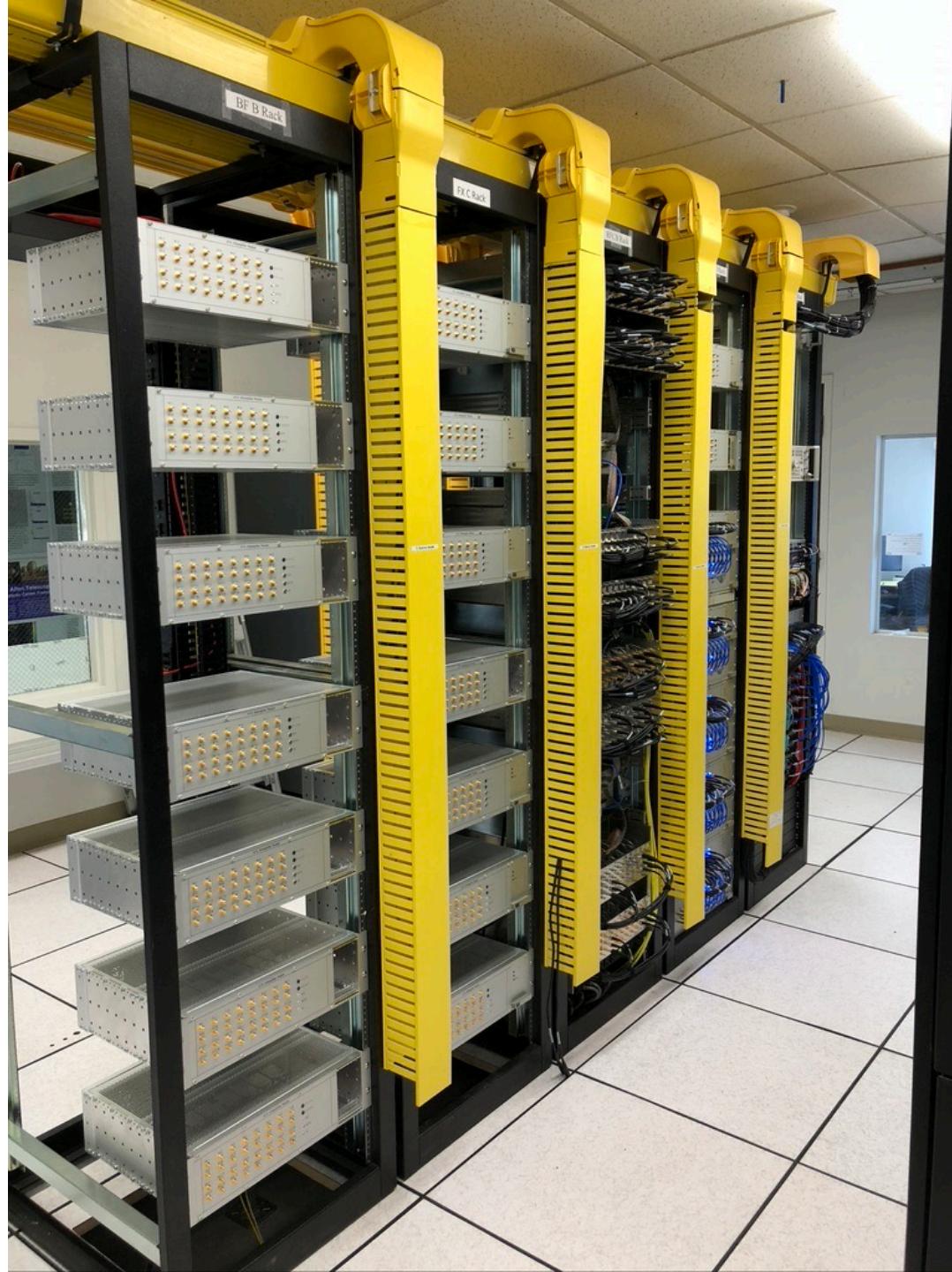
- Power dependent on feed  
007
- Get additional modified damper from Minex
- Tested at: 70W, 120W, 150W, 190W



Number	Installed Ant.	Initial, before tuning	Tuned Value	Followup measurement	Followup tuned value
5C4-007	3L	X=0.15 Y=0.05 Z=0.38	X=0.04 Y=0.05 Z=0.11	X=0.22 Y=0.15 Z=0.28	X=0.11 Y=0.10 Z=0.11

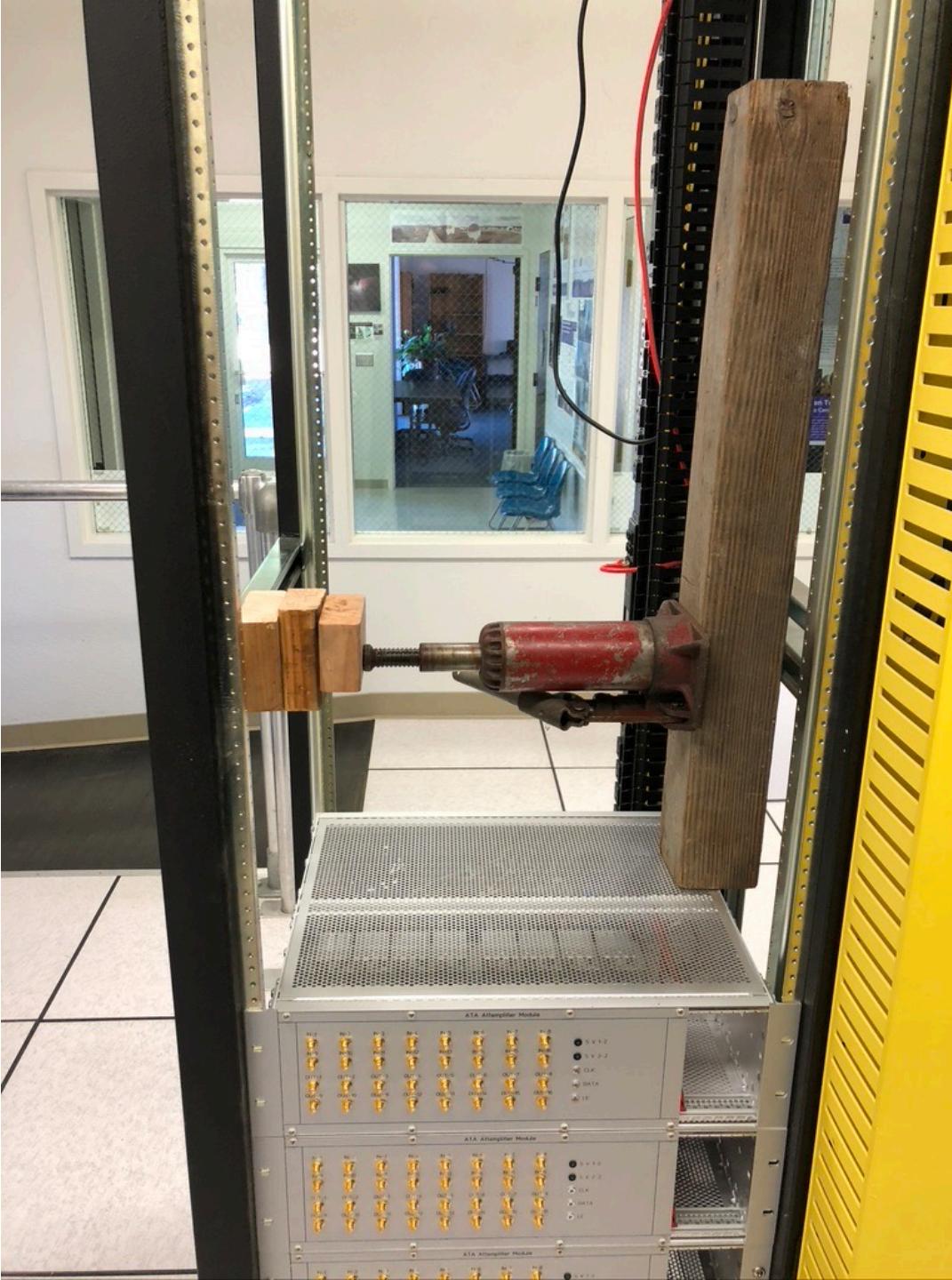
## Attemplifiers:

- 21 modules installed in SPR
- 1 spare module currently assembled
- PSU front panel will be delivered end of November



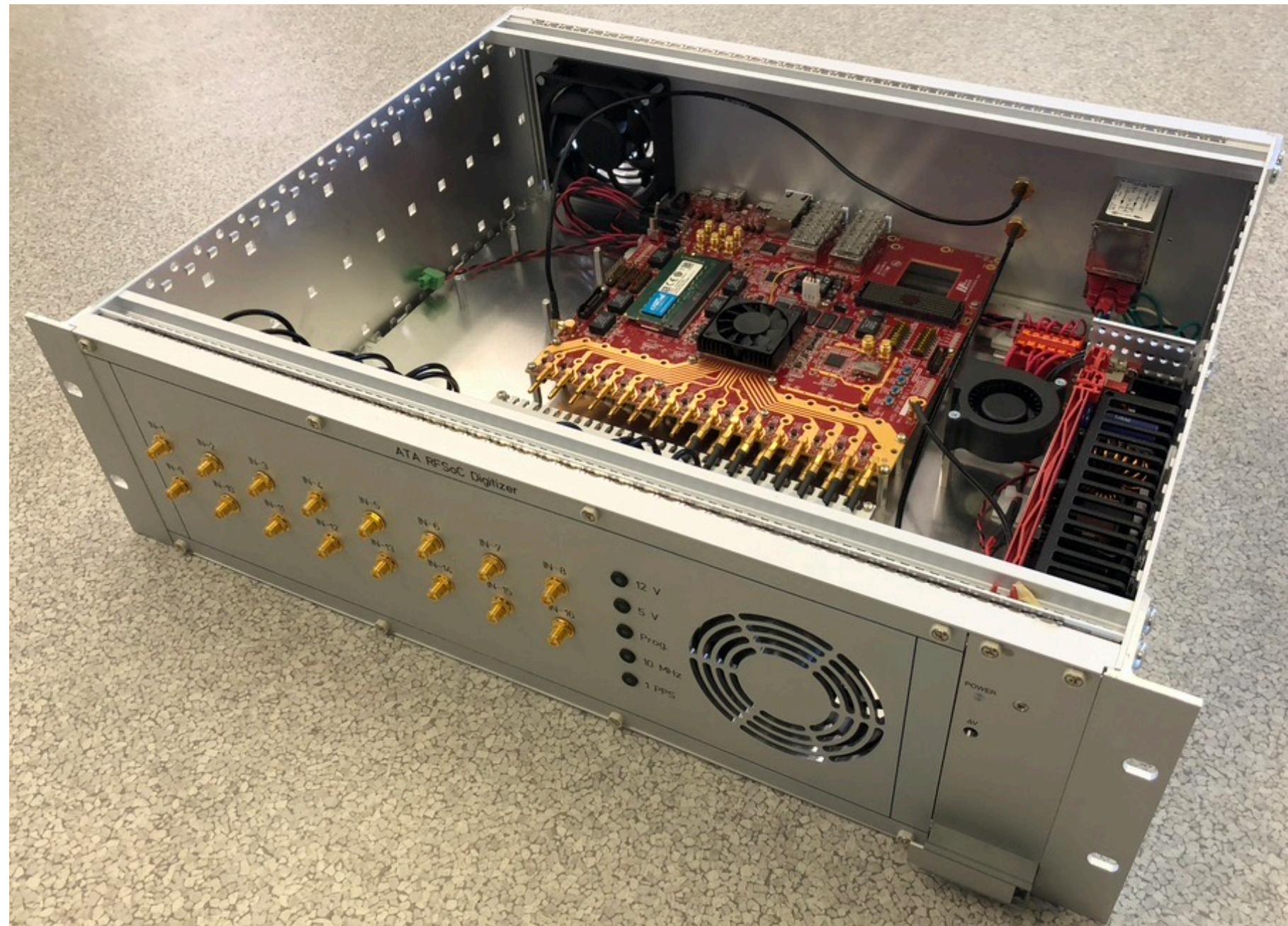
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## RFSoC modules:

- Planning assembly of enclosure only



## Control box versions:

- replaced 9 control boxes
- 20/42 are version 2
- 2 spare CB not installed

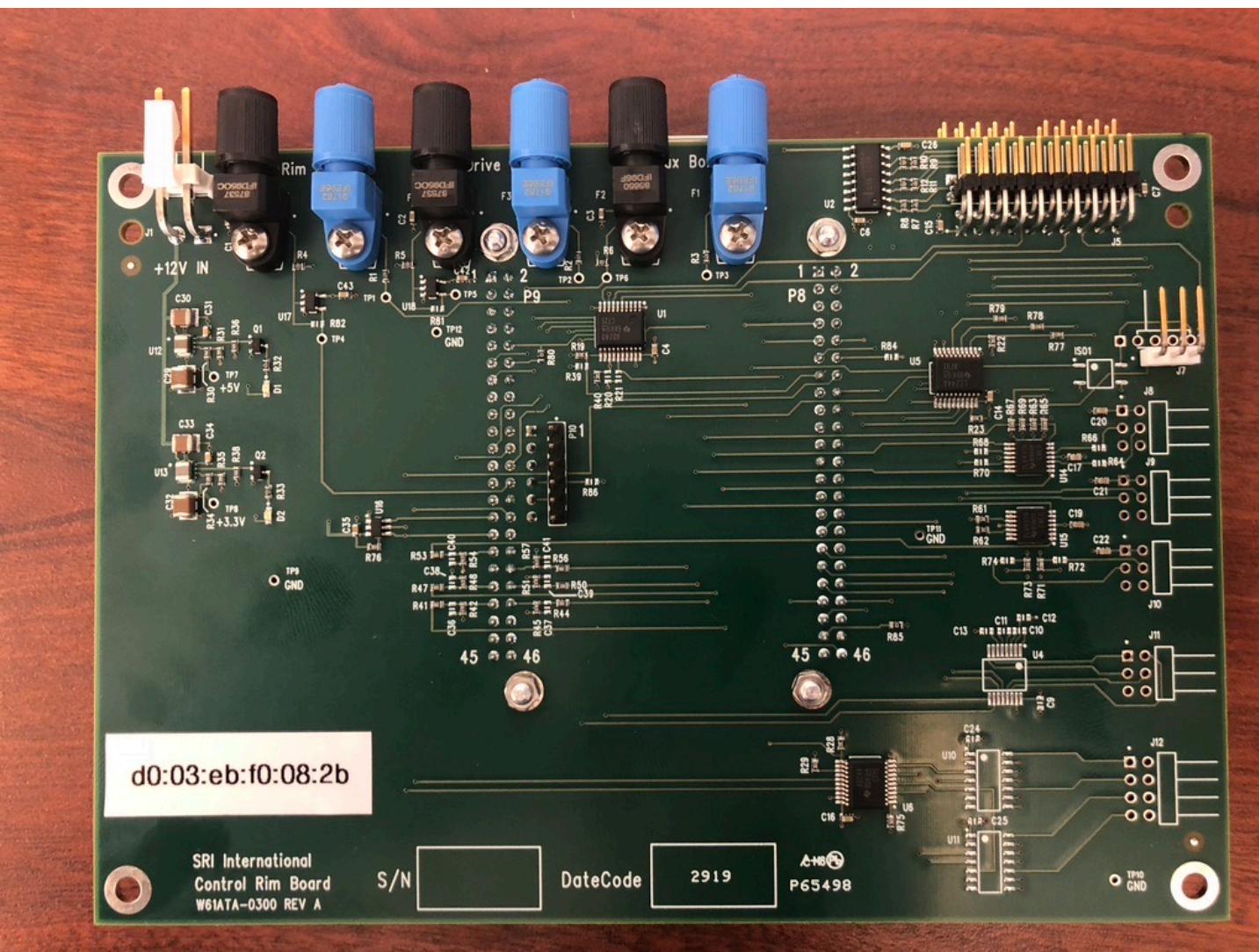


Ant	Feed Version	Antennas	
		Feed installed	Control Box
<u>1A</u>	V1	YES	-
<u>1B</u>	V1	-	OLD
<u>1C</u>	V2	YES	-
<u>1D</u>	V1	-	OLD
<u>1E</u>	V2	YES	-
<u>1F</u>	V1	YES	-
<u>1G</u>	V2	YES	-
<u>1H</u>	V2	YES	-
<u>1J</u>	V1	-	-
<u>1K</u>	V2	YES	OLD
<u>2A</u>	V2	YES	-
<u>2B</u>	V2	YES	-
<u>2C</u>	V2	YES	OLD
<u>2D</u>	V1	-	-
<u>2E</u>	V2	YES	OLD
<u>2F</u>	V1	-	OLD
<u>2G</u>	V1	-	-
<u>2H</u>	V2	YES	-
<u>2I</u>	V2	YES	-
<u>2K</u>	V2	YES	-
<u>2L</u>	V2	YES	OLD
<u>2M</u>	V2	YES	OLD
<u>3C</u>	V2	YES	OLD
<u>3D</u>	V2	YES	OLD
<u>3E</u>	V1	-	OLD
<u>3F</u>	-	-	
<u>3G</u>	-	-	
<u>3H</u>	-	-	
<u>3J</u>	V1	-	OLD
<u>3L</u>	V2	YES	OLD
<u>4E</u>	V1	-	-
<u>4F</u>	V1	-	-
<u>4G</u>	V1	YES	OLD
<u>4H</u>	V1	-	-
<u>4J</u>	V2	YES	OLD
<u>4K</u>	V1	-	OLD
<u>4L</u>	V1	-	OLD
<u>5B</u>	V2	YES	-
<u>5C</u>	V1	YES	-
<u>5E</u>	V1	-	OLD
<u>5G</u>	V1	-	OLD
<u>5H</u>	V1	-	-

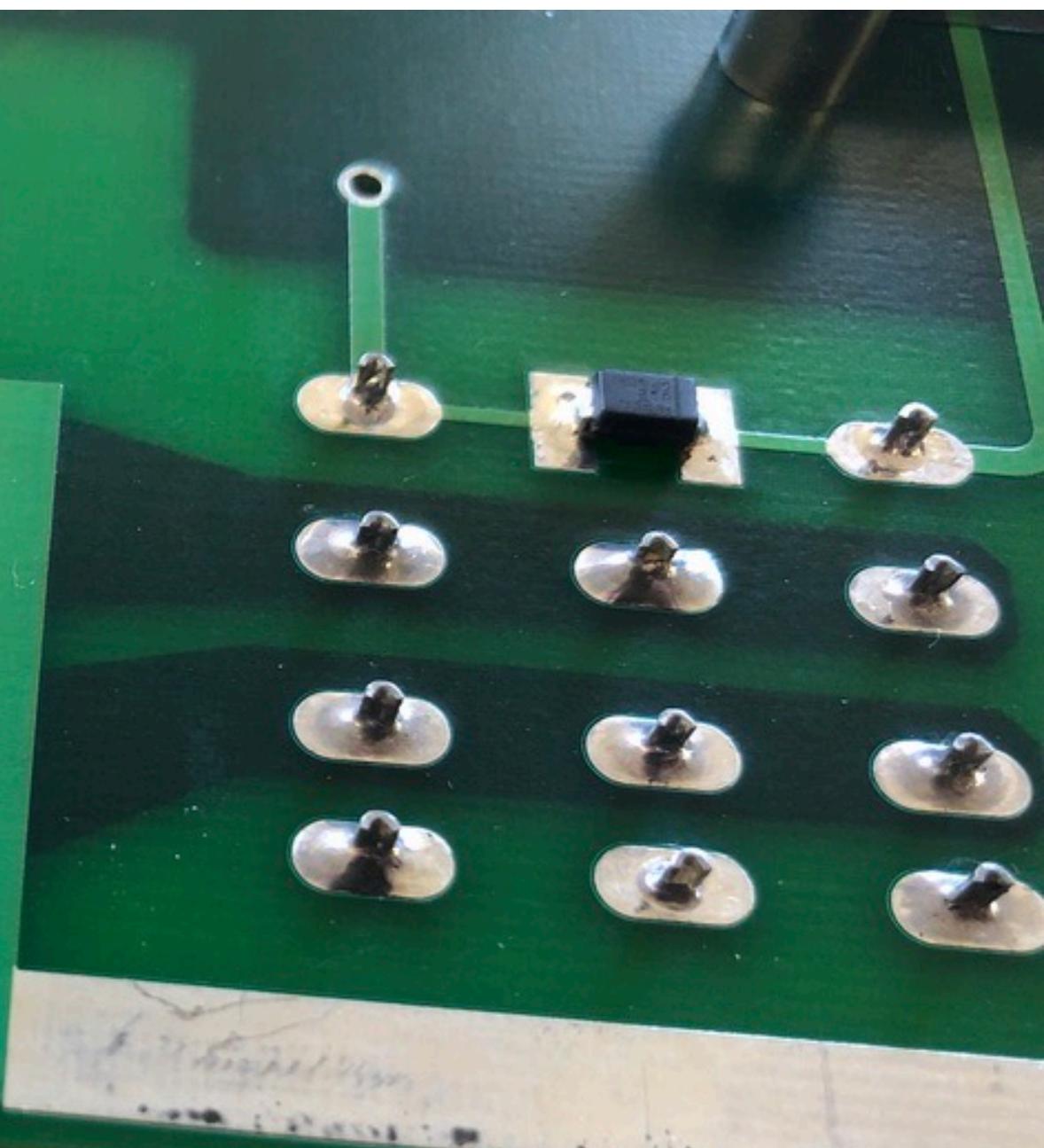
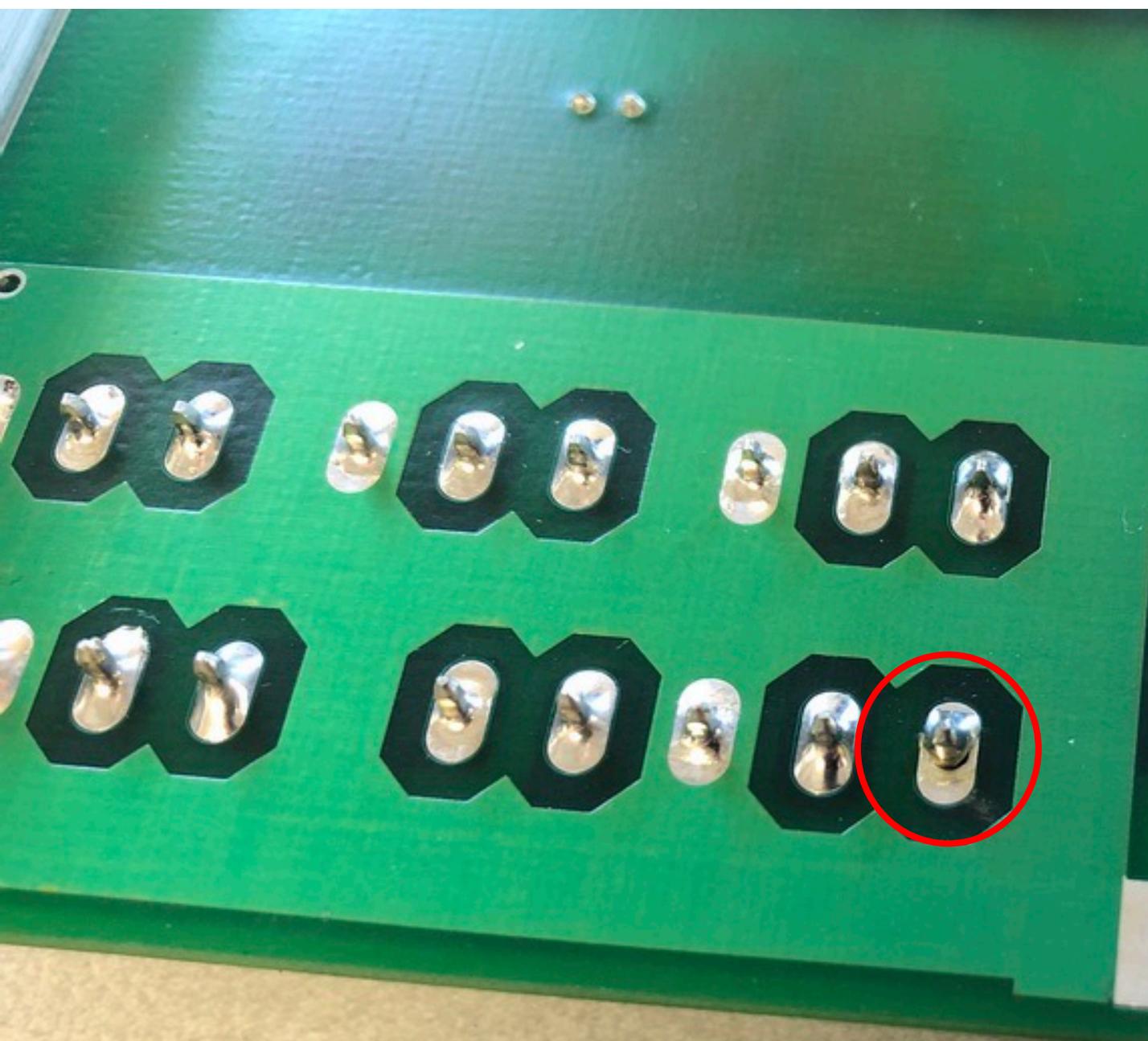
# Control board:

- Non available components!
- TI sample program declined
- Reuse IF-D96F from old boards

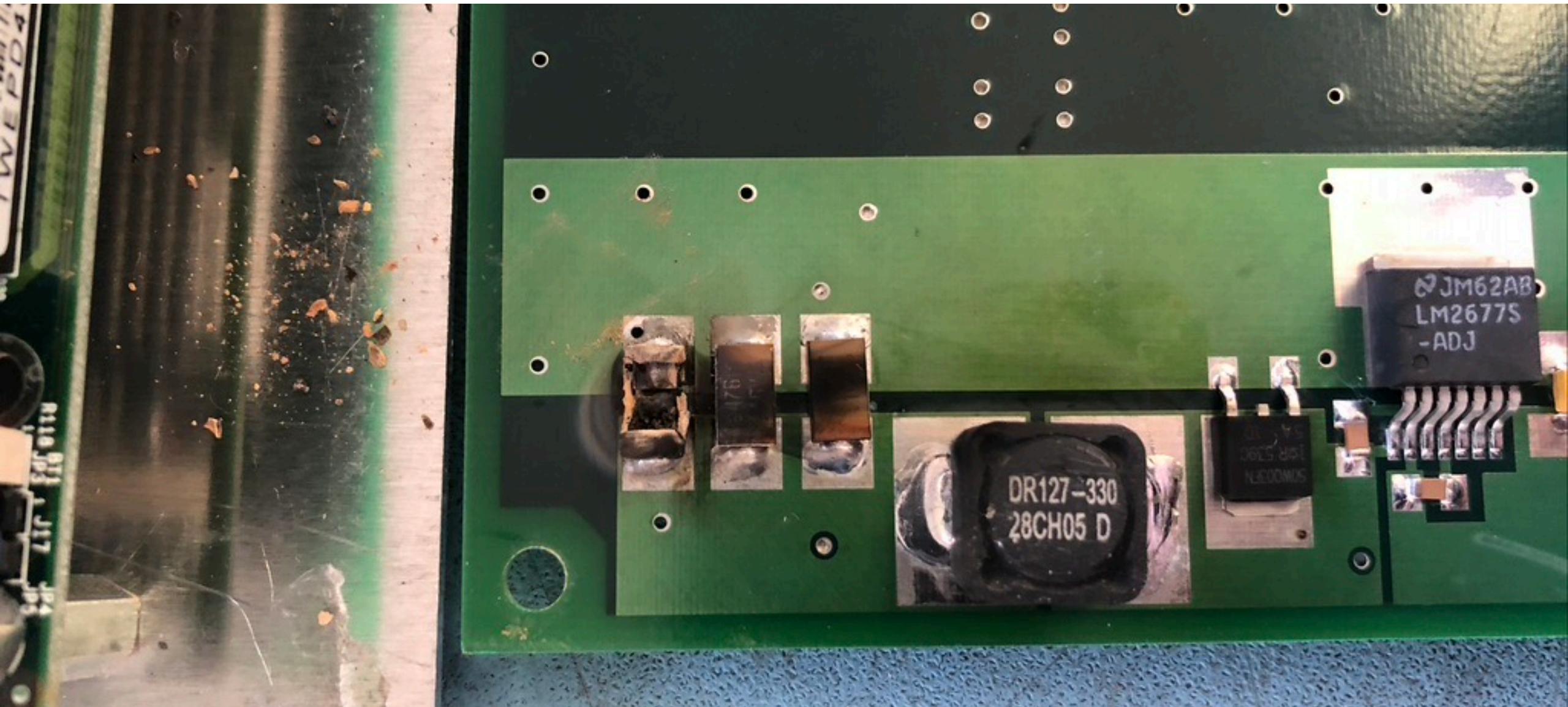
IF-D96F	Industrial Fiber Optics	Obsolete	no stock
TPS82150SILR	Texas Instruments	Normally Stocking	found source
TLV4376IPWR	Texas Instruments	Normally Stocking	found source



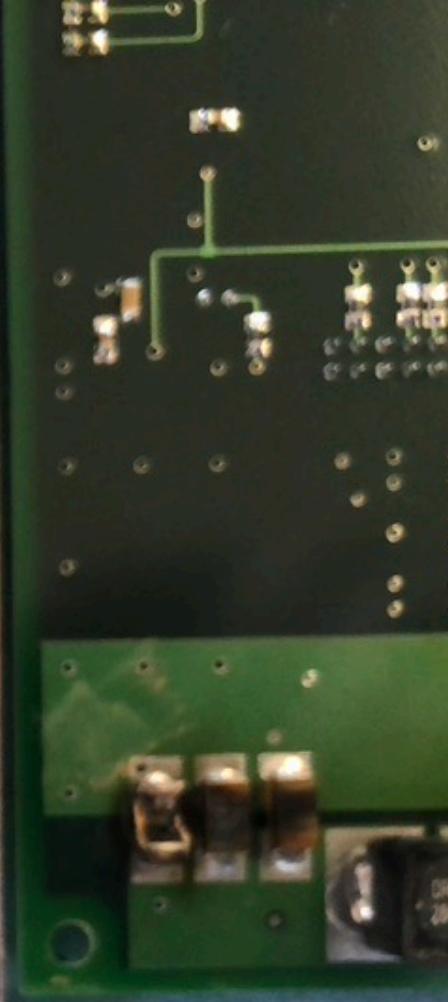
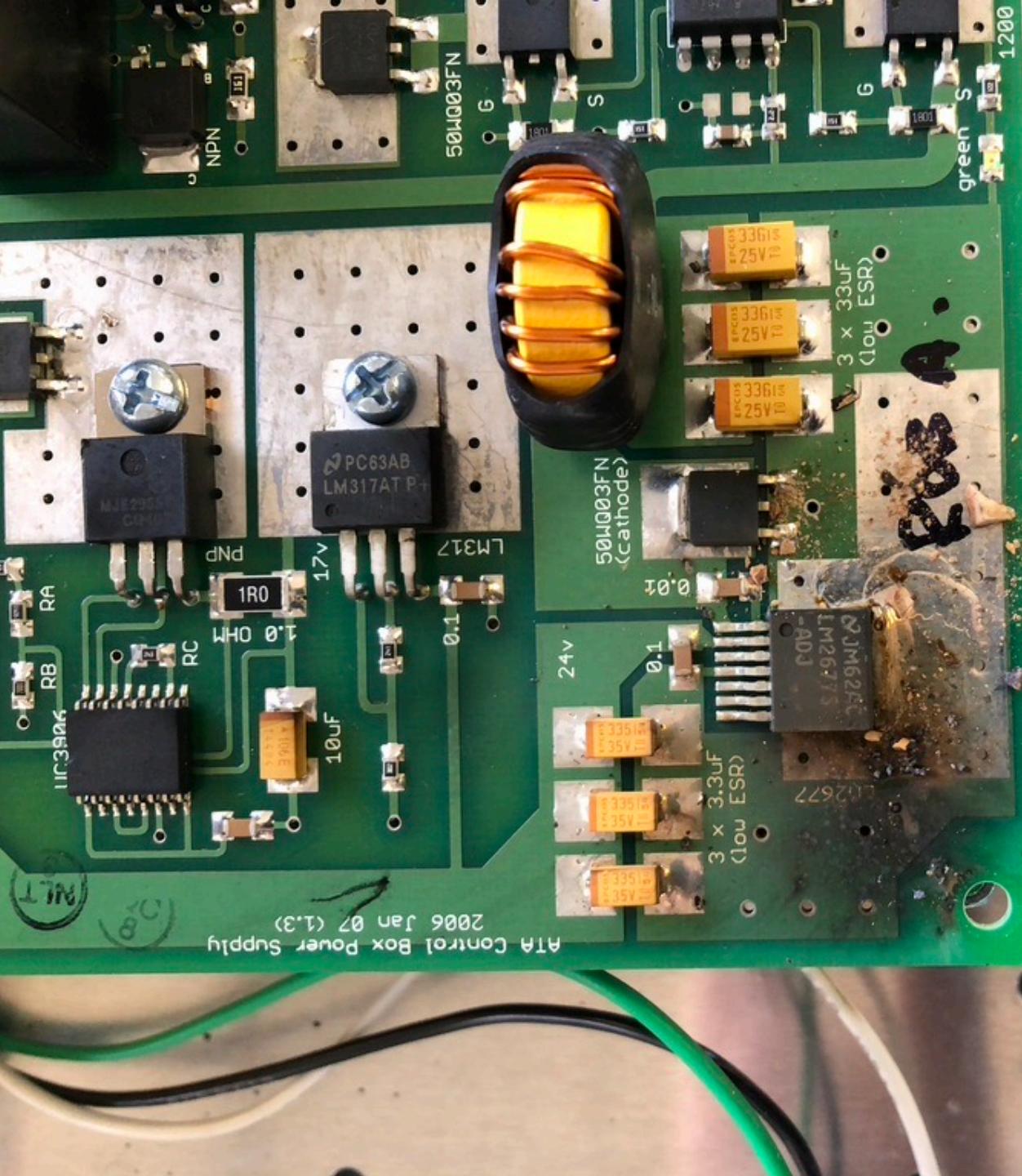
Antenna relay board:



Antenna control supply  
board:



Antenna control supply  
board:



# Antonio Feeds:

- 6 PY in production
- LNAs need to be tested
- Prototype run for new build feeds.

Number	Pyramid Overview				Bias ID	Labeled
	LNA X	LNA Y	X-Y switched			
PY-001	50	71	-		25mA	YES
PY-002	55	62	YES		25mA	YES
PY-003	12	39	-		25mA	YES
PY-004	43	44	-		25mA	YES
PY-005	47	52	-		25mA	-
PY-006	75	82	-		25mA	-
PY-007	41	99	-		25mA	YES
PY-008	15	23	YES		25mA	YES
PY-009						
PY-010	24	73	-		25mA	YES
PY-011	57	59	YES		25mA	YES
PY-012	37	56	-		25mA	-
PY-013	53	72	-		25mA	-
PY-014	60	64	-		25mA	YES
PY-015	45	48	-		25mA	-
PY-016	16	17	-		25mA	YES
PY-017	F66	F67	-		60mA	YES
PY-018	18	40	-		25mA	-
PY-019	34	46	-		25mA	YES
PY-020	83	84	-		25mA	-
PY-021						
PY-022						
PY-023						
PY-024						
PY-025						

## SRI equipment relocation:

- Move DONE
- Network and power missing.
- HCH ready for visitors.



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 AlexanderPollak	added memos	f72d93c	2 minutes ago	 History
..				
 2019-10 Antenna Tsys Measurement	added memos		2 minutes ago	
 2020-02 PAX Power Level Control Software	added memos		2 minutes ago	
 2020-09 ATA Dynamic Range Report	added memos		2 minutes ago	
 2020-10 RFCB-Measurement Report	added memos		2 minutes ago	
 2021-03 Interface & Rate Sheet	added memos		2 minutes ago	
 2021-04 Pointing-Calibration	added memos		2 minutes ago	
 2021-07 Antonio Feed Buildout	added memos		2 minutes ago	
 .DS_Store	added memos		2 minutes ago	
 Readme.md	Update Readme.md		10 months ago	