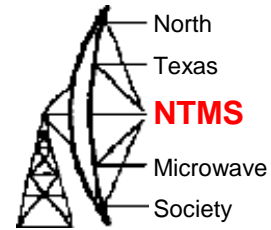


# Wavelab 24 GHz Update – NTMS #3

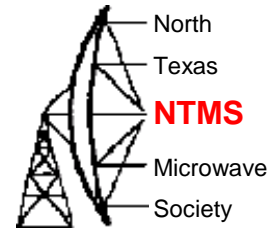
July 1, 2023

# PCB board builds



- Nov 2022 – 20 units
- May 5, 2023 – 5 units : harvested modules appear again on eBay
- May 10, 2023 – 30 units
- June 15, 2023 – 75 units
- Orders filled for USA, Canada, Australia, UK, Malta, Netherlands, Belgium
- Starting with May 5<sup>th</sup> – builds are numbered NTMS#1 , #2, #3
  - Each build has a slightly different BOM of additional parts needed.
  - Mouser BOMs exist for each build
  - Spare parts and boards are available today at the in-person meeting
- There are approx. 10 extra boards available (NTMS#3)

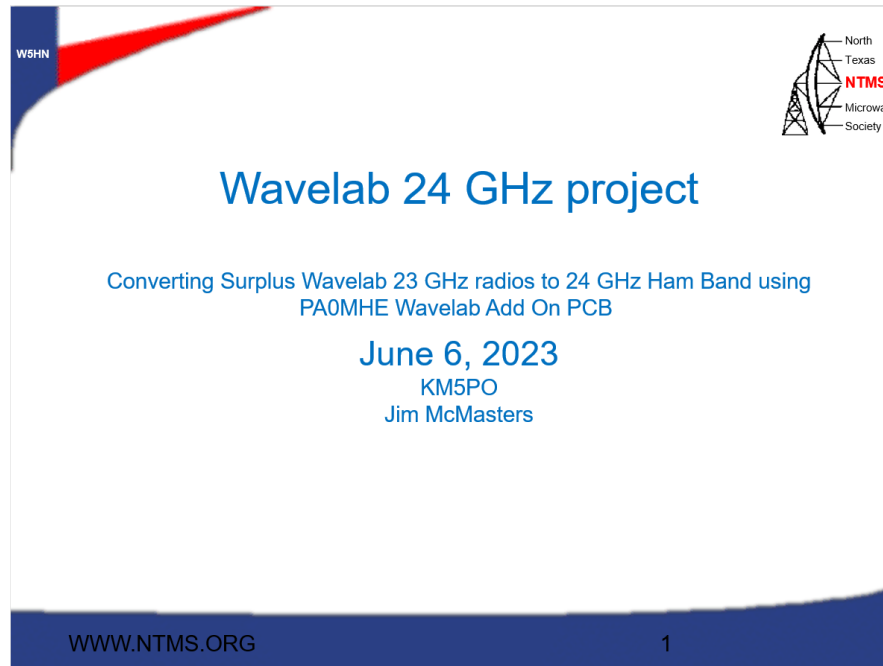
# PCB board builds



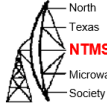
- This is what 75 wavelab boards looks like



# Presentation for 50 Mhz and up Group



W5HN



## Wavelab 24 GHz project

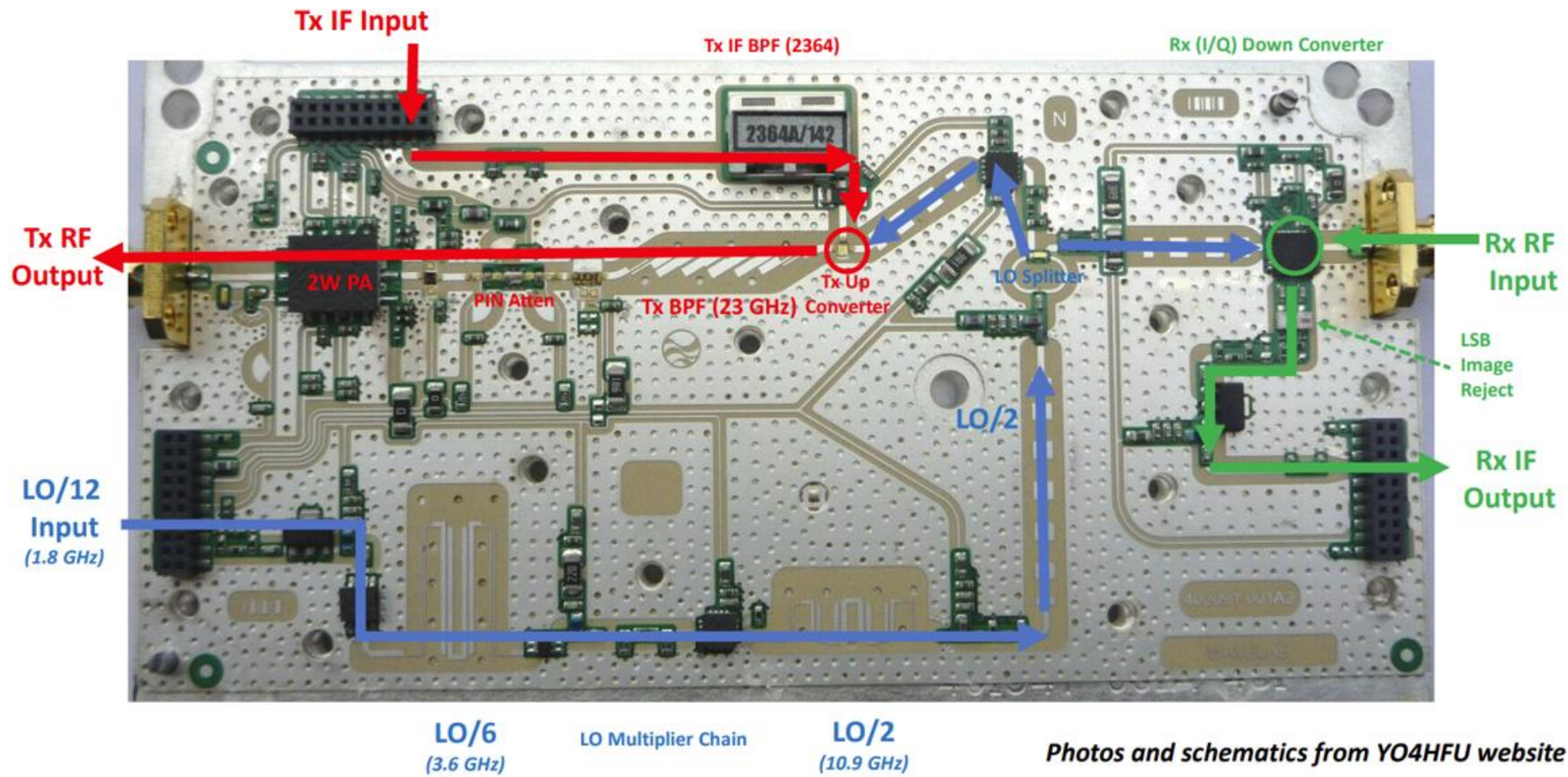
Converting Surplus Wavelab 23 GHz radios to 24 GHz Ham Band using  
PA0MHE Wavelab Add On PCB

June 6, 2023  
KM5PO  
Jim McMasters

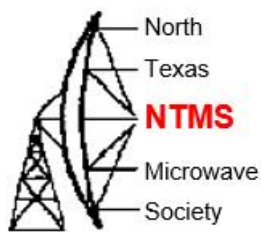
WWW.NTMS.ORG 1

- Link to this presentation will be emailed to NTMS groups.io

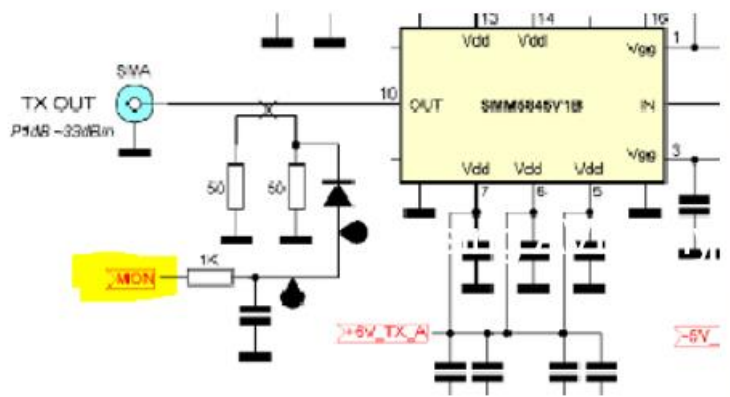
# Signal Flow & Components Inside the Wavelab Module



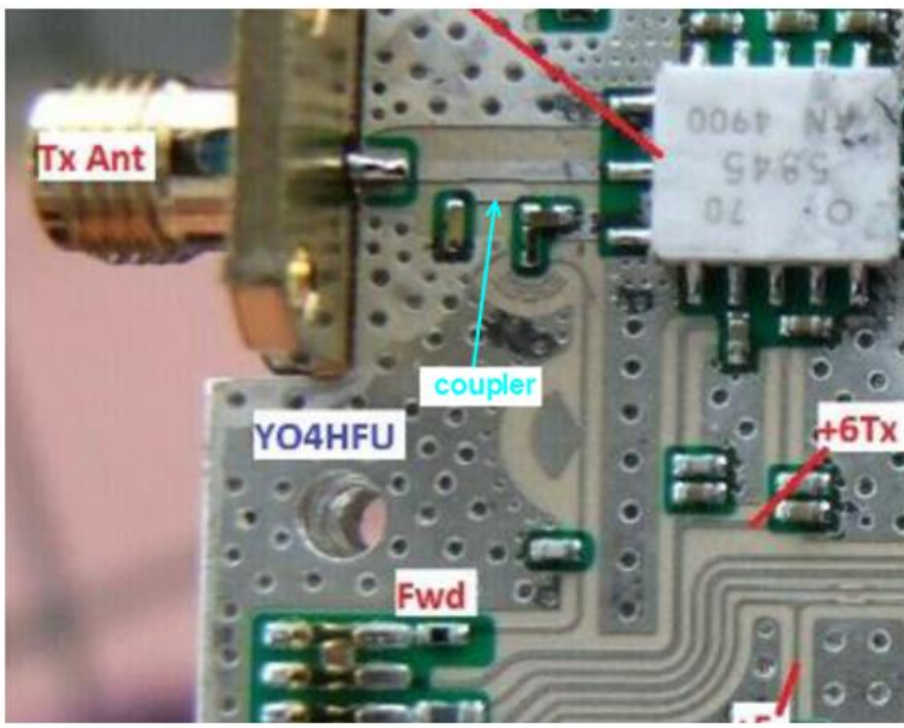
# Monitor port



- Mon(itor) port

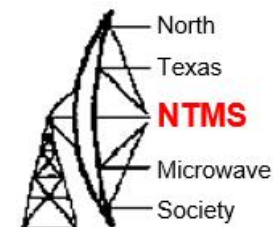


Measure varies from -.5 to -3.5v (J2 pin 1)



# Wavelab 24 GHz EME

May 18, 2023- Hans PE1CKK worked PA0BAT via EME



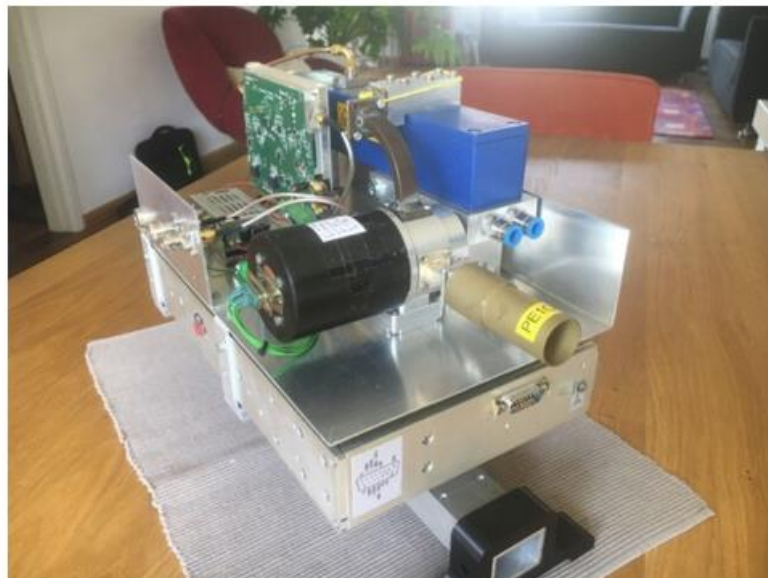
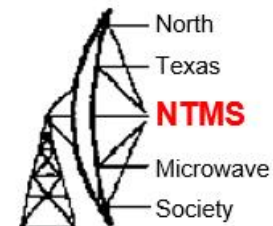
- Wavelab with PA0MHE addon board
- RW1127 TWT 30W converted to 24G
- DU3T preamp nf 1dB

- WG switch
- Dualmode feedhorn calculated for  $f/D$  0,8
- 1.8m Prodelin offset dish



# Wavelab 24 GHz EME

May 18, 2023- Hans PE1CKK worked PA0BAT via EME





# Questions?

