

MA-COM 870 MHz PA MODS

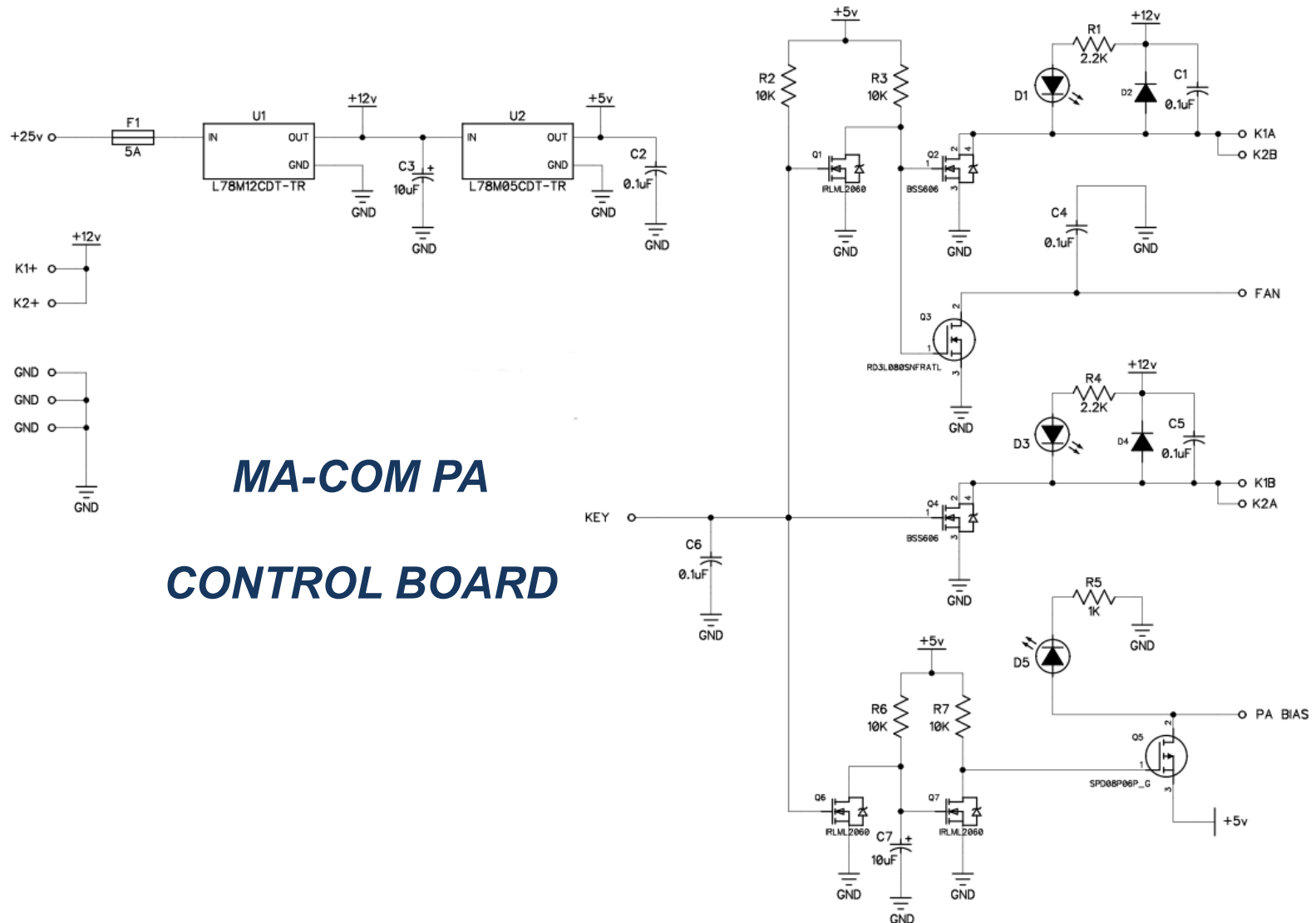
FOR 902 MHz WEAK-SIGNAL OPERATION

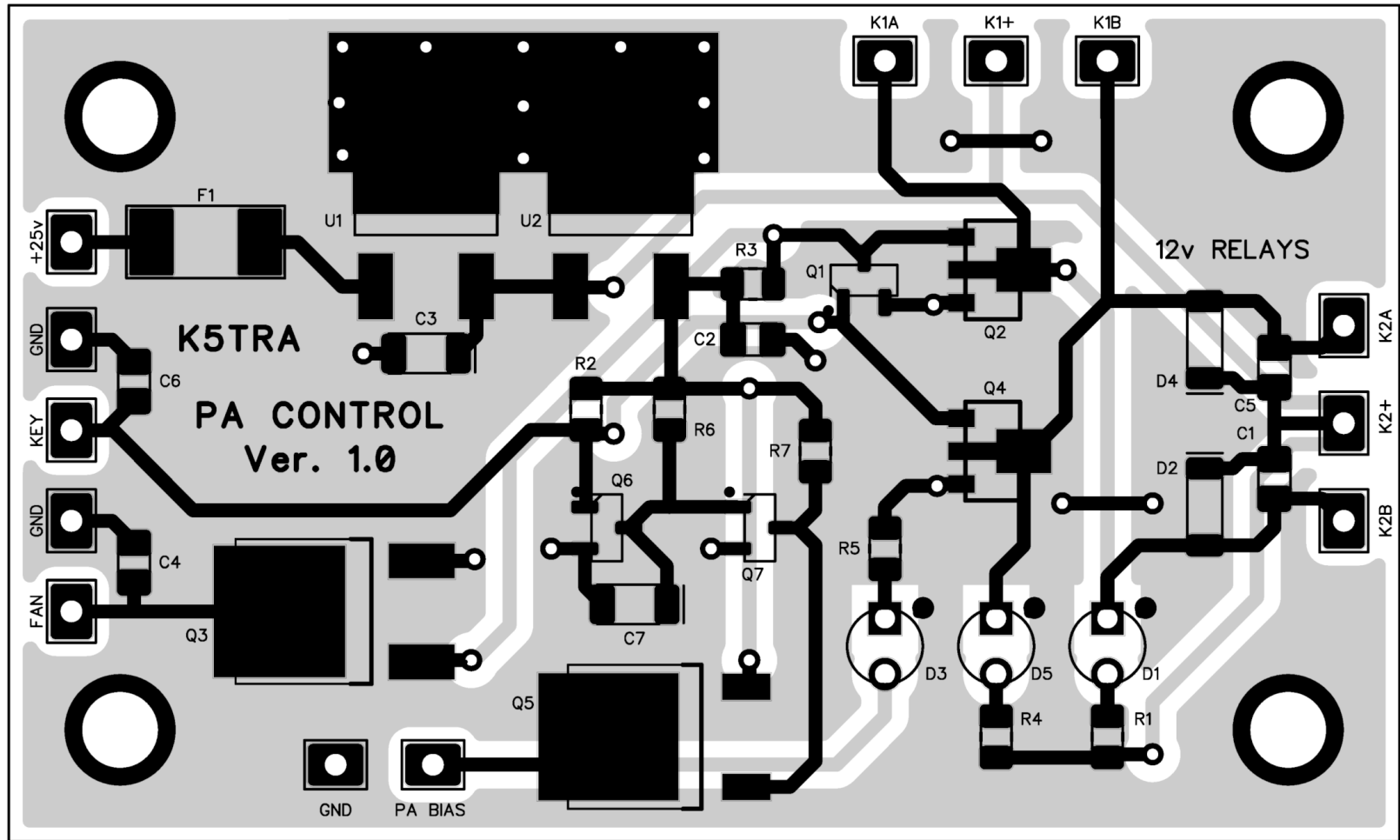


- Modification of MA-COM 100 W PA for 900 MHz weak-signal operation
- Keying interface from transverter open-collector (pull-down)
- Drive applied to finals: 17W input for full power output
- Control board provides:
 - RF switching for receive pass through
 - Fan control
 - 100 mS delayed PA bias
- Anaritsu RF relays require PA to be DC powered for receive pass through connection

RMG

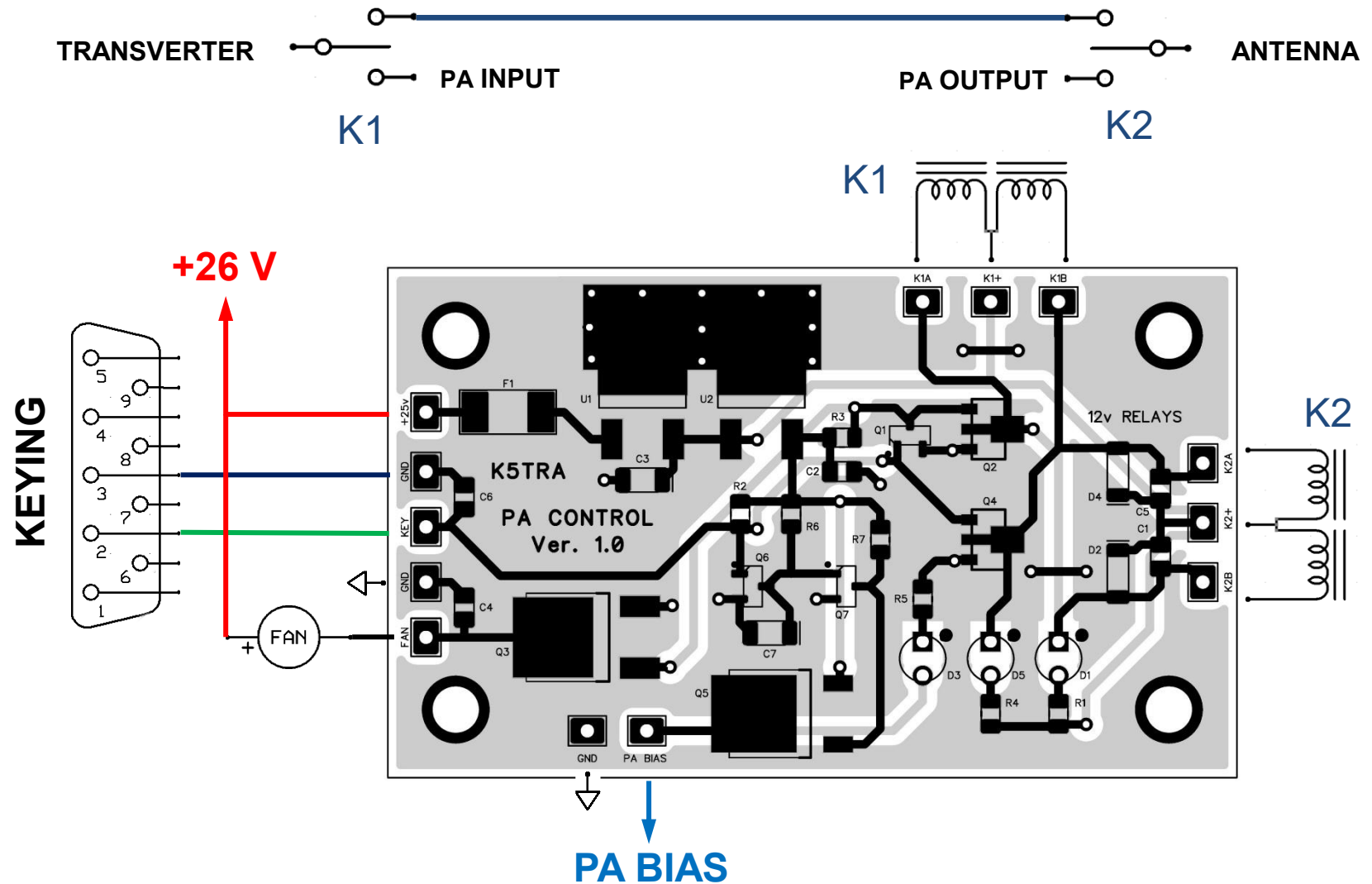
CONTROL BOARD - SCHEMATIC





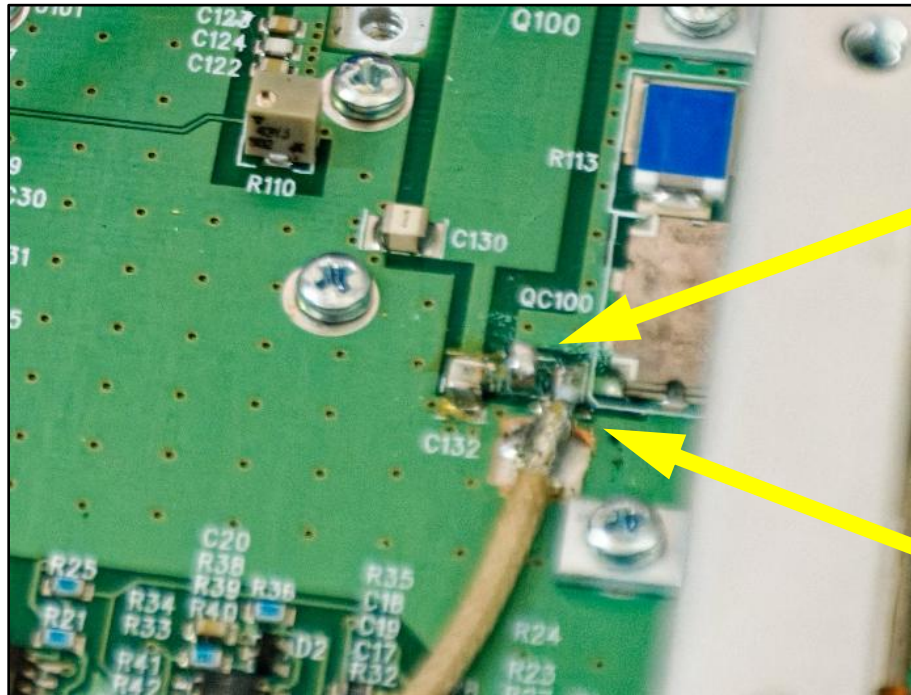
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CONTROL BOARD INTERFACE



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DRIVE APPLIED TO FINAL STAGE

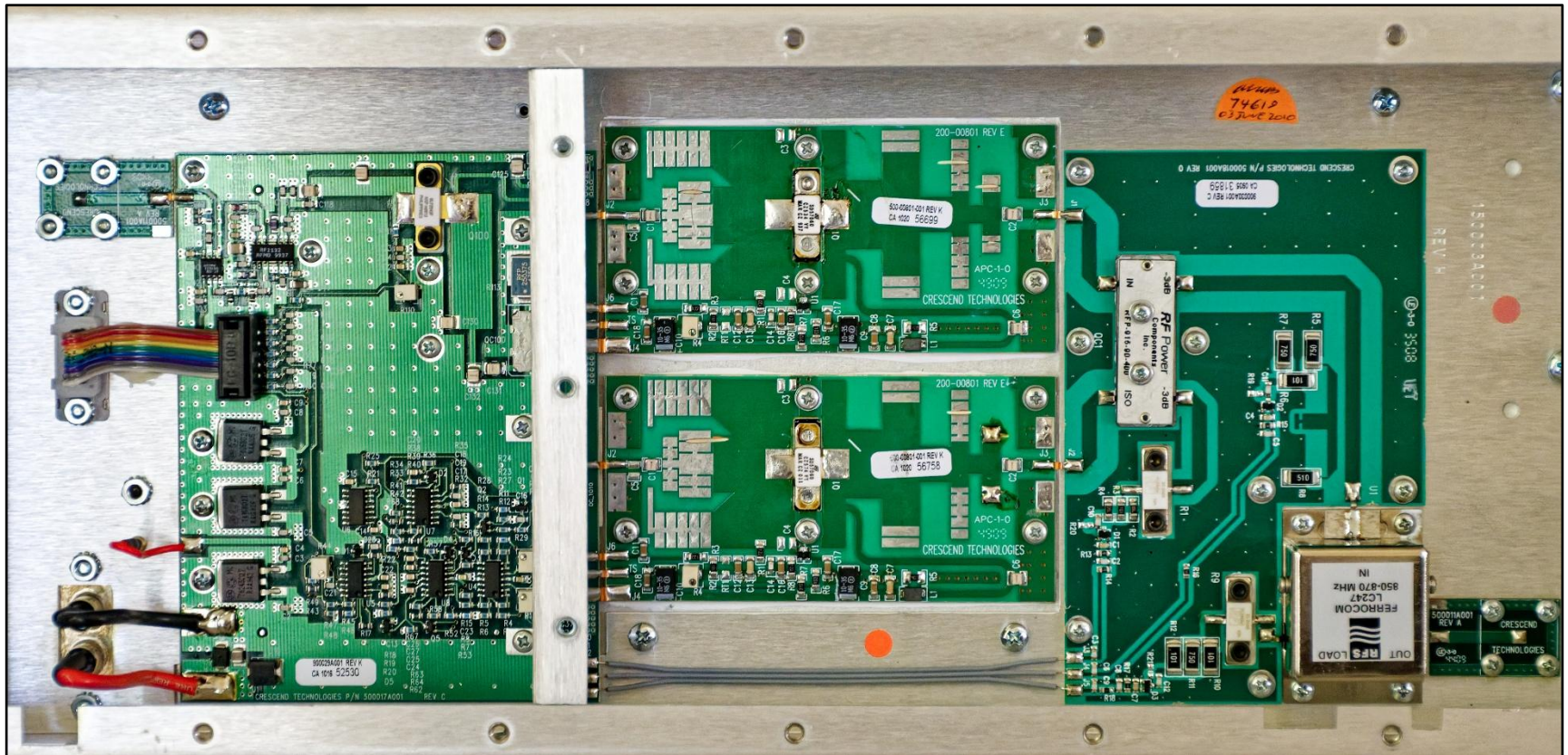


**LIFT COUPLING
CAPACITOR**

**INPUT COAX TO
QUAD-HYBRID
SPLITTER**

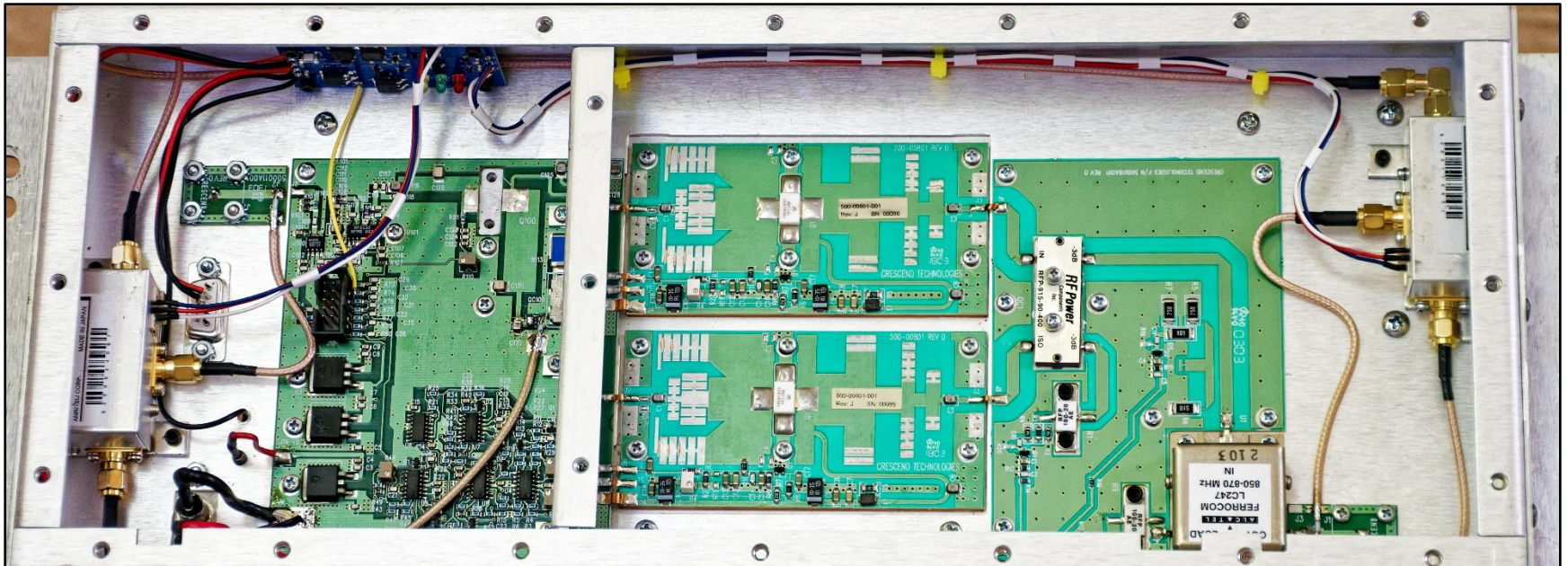
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ORIGINAL – UNMODIFIED PA

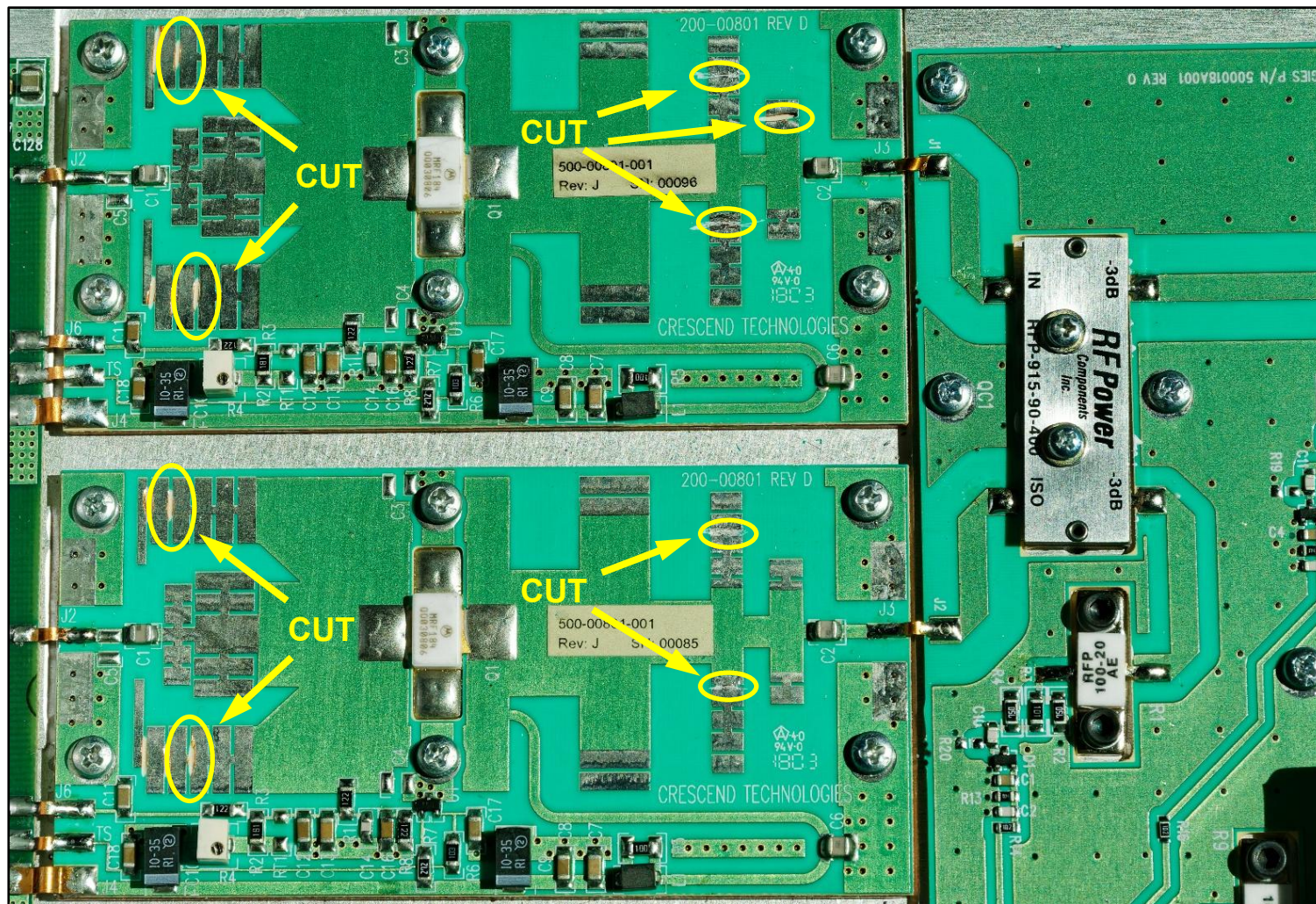


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MODIFIED PA

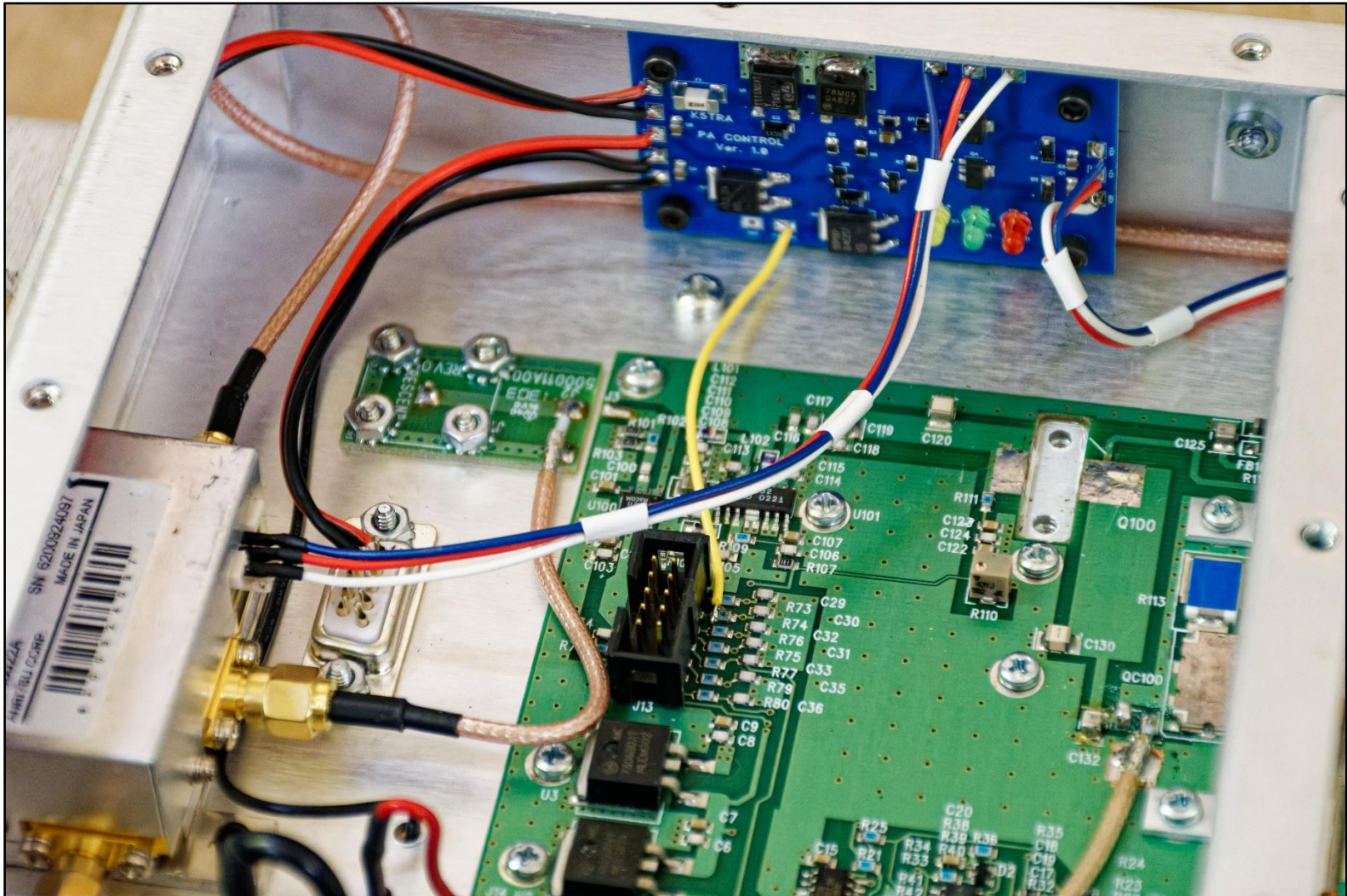


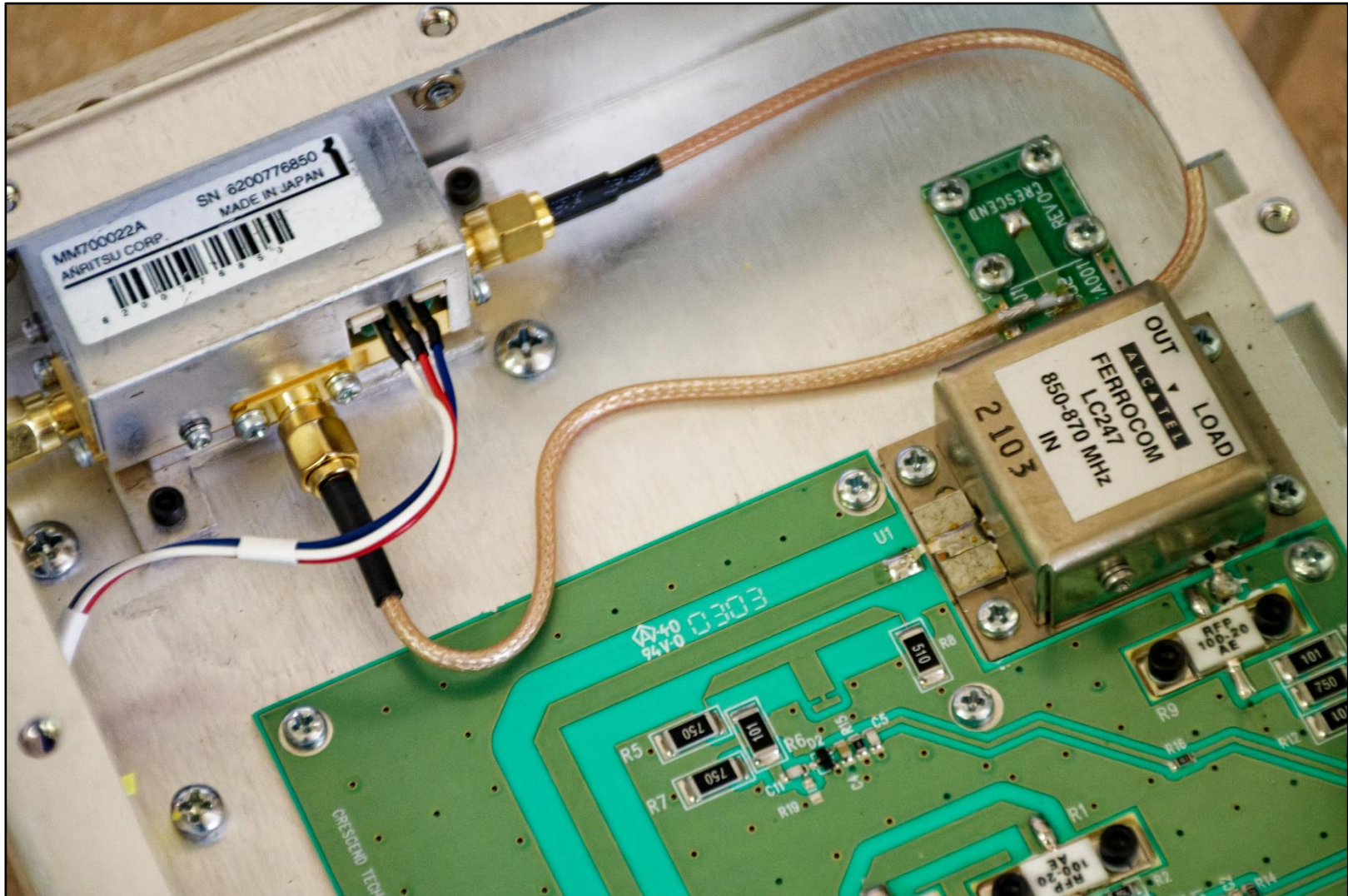
FINAL TUNING FOR 902 MHz



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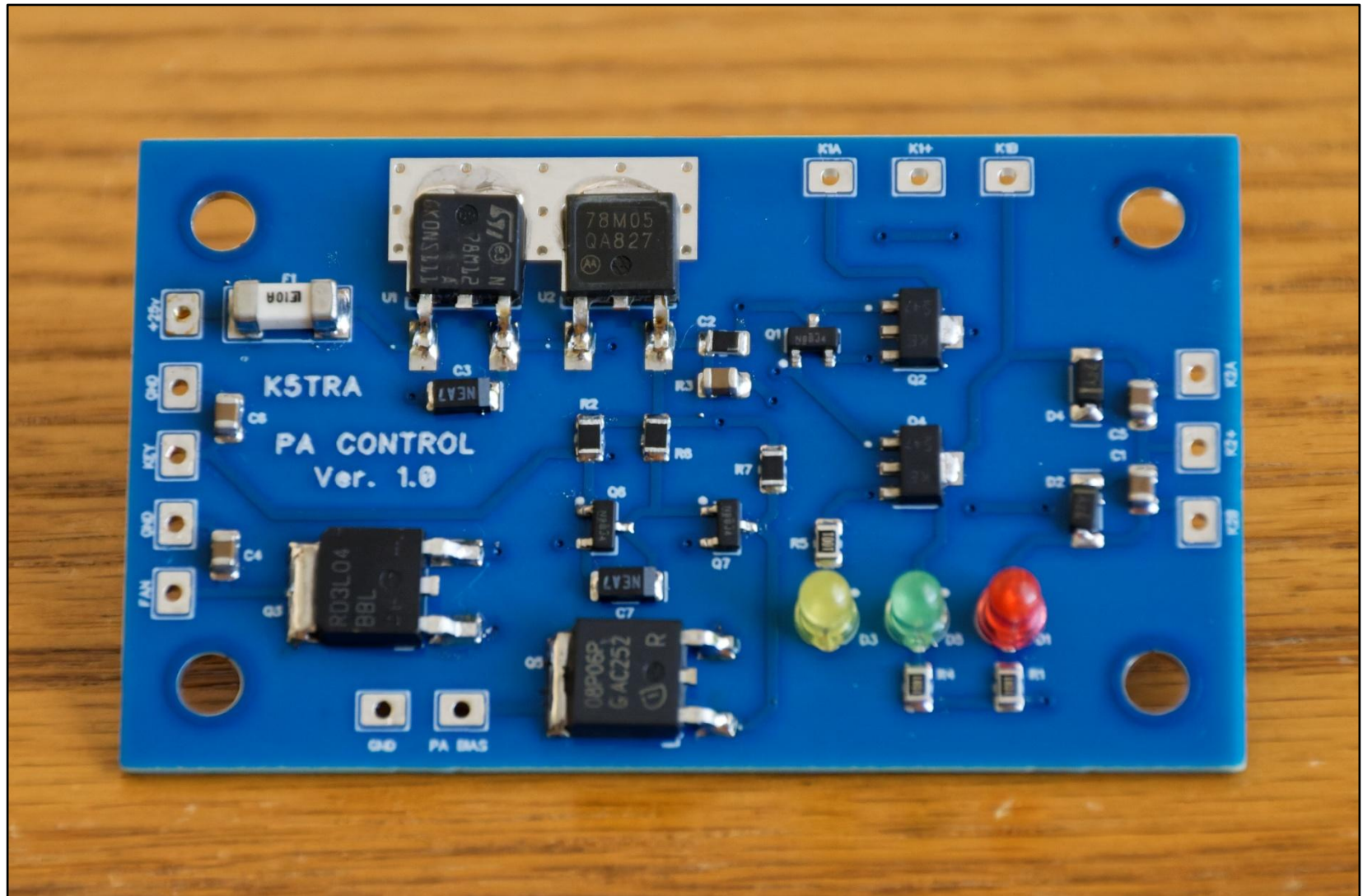
INPUT SWITCHING





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ASSEMBLED CONTROL BOARD



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COMPLETED PA MODIFICATION

