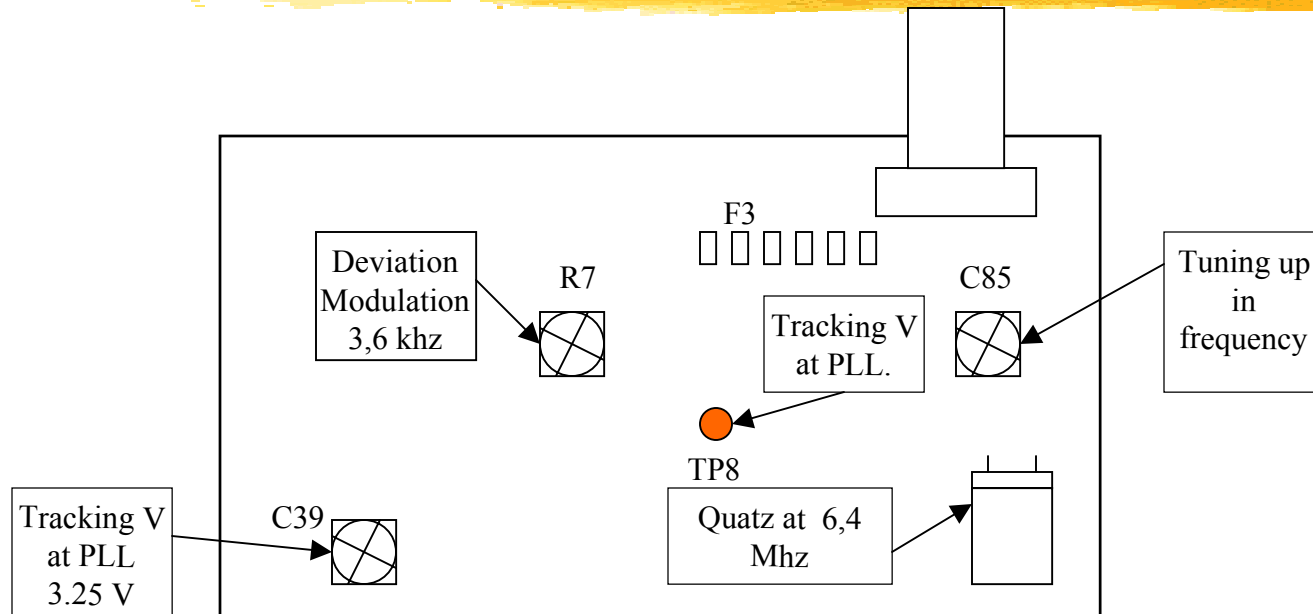


## RF TRANSMITTER TD450

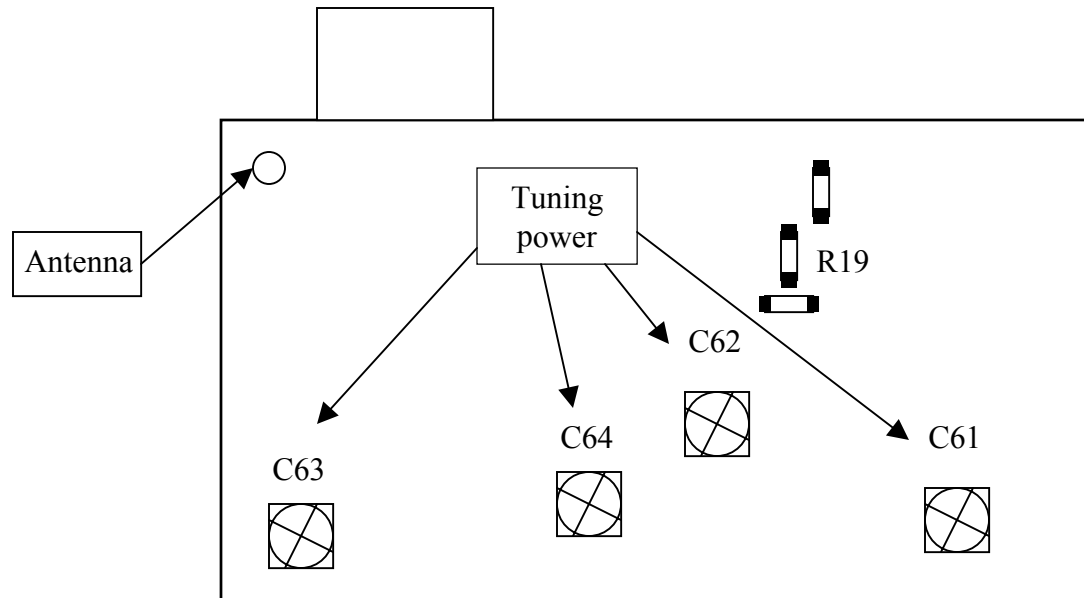
### Tracking Voltage at PLL and frequency



- Supply: 7,2V at F3.
- Output frequency is programmed into the logic.
- Tune up  $f_{out}$ , using trimmer C85, until the frequency of the carrier equals to  $f_{out} \pm 2$  KHz. (frequency-meter)
- Measure tracking voltage of PLL (TP8 to GND), tune it using trimmer C39, until voltage equals to  $3.25 \text{ V} \pm 0.25 \text{ V}$ .
- Tune up the deviation of the modulation, with the potentiometer R7, until deviation equals to 3.6 KHz (measured using a modulation-meter (RACAL DANA 9009 A))

## RF TRANSMITTER TD450

### Tuning of operating power level



- Tune up the operating power out, using trimmers C61, C62, C64 and C63, (follow the ordered list) to maximise  $P_{out}$ , measured with a spectrum analyser.
- Always must be:  $P_{out} \text{ (PRA)} < 10 \text{ dBm}$ .