

PEAK POWER BOARD FOR BIRD 43 ADAPTABLE TO OTHER WATTMETERS

DATE: 28/05/2021 REV: 4 PAGE: 1/1
BY: f1frv@sfr.fr
DOC N°: AMATEUR RADIO

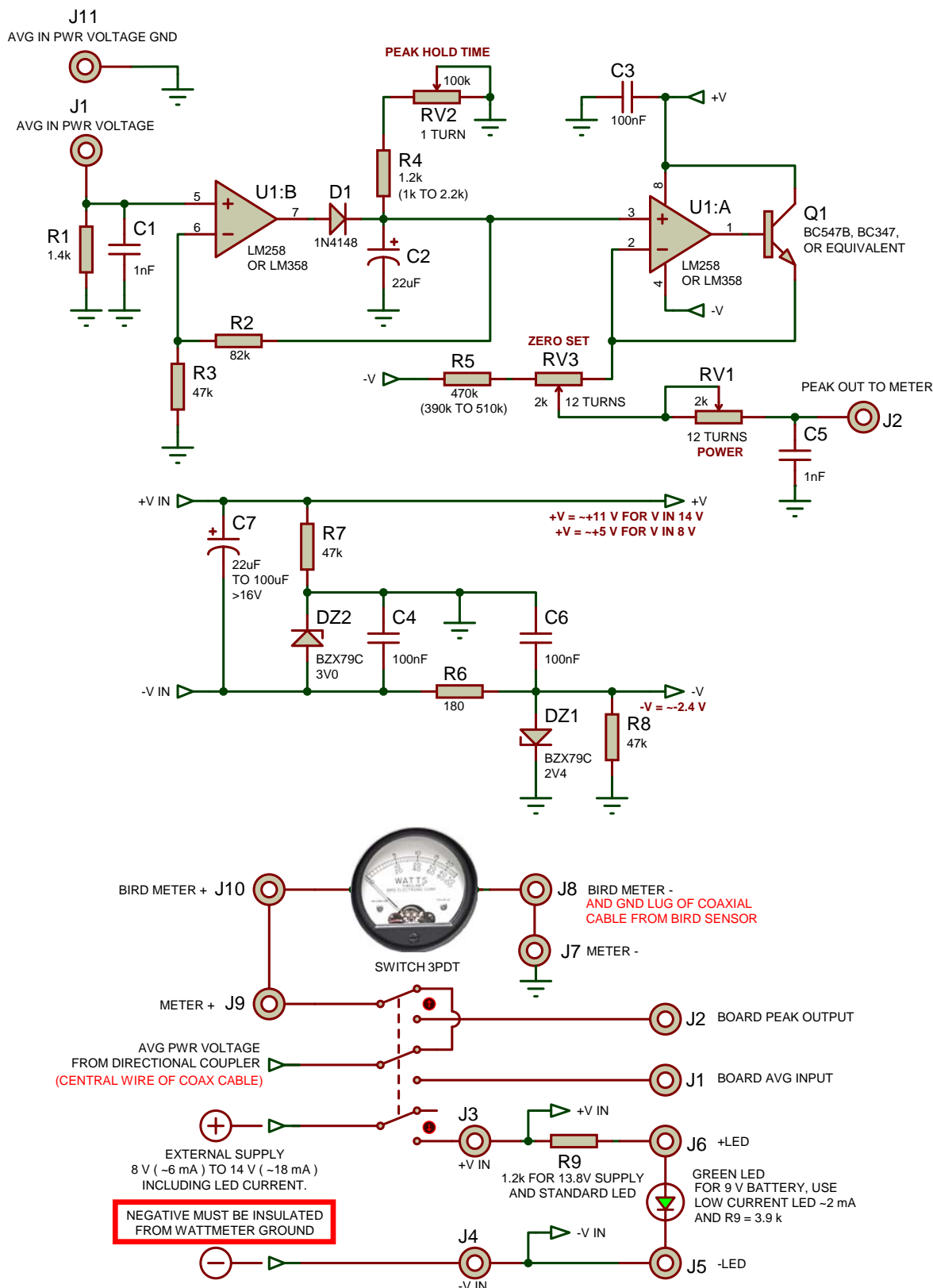
THIS CIRCUIT USES SPLIT POWER SUPPLY OF OP AMP, TO ALLOWS FOR PRECISE 0 OFFSET ADJUSTMENT.

R1 AT AVG INPUT 1.4 k FOR 30 μ A / 42 mV BIRD 43 METER.

http://f1frv.free.fr/main3t_Peak_Power_Board.html

R1 AT AVG INPUT DEPENDING ON METER USED. SEE FILE " Mesure Resistance Interne Galvanometre.pdf ".

FOR FULL SCALE >100 mV, OR METER > 100 μ A, YOU CAN USE SIMPLER & SMALLER CIRCUITS REV 2.2 OR 3.1



NOTA: CIRCUIT SUPPLY VOLTAGE (V IN) SHALL BE AT LEAST PEAK PWR OUTPUT VOLTAGE + 5 VOLTS

PEAK READING ZERO ADJUSTMENT (RV3) MUST BE MADE WITHOUT RF.

RF ADJUSTMENT MUST BE MADE IN STEADY CW CARRIER. ADJUST RV1 TO HAVE SAME READING IN PEAK POWER POSITION AS IN AVERAGE POWER POSITION.

AFTER THIS, IN PEAK POSITION, WITH PULSED CW, ADJUST RV2 TO HAVE ~STABLE NEEDLE AND NOT TOO LONG NEEDLE DECREASE TIME AT RF TRANSMISSION STOP.