

THIS CIRCUIT IS MADE FOR POWER AND AUTOMATIC SWR DISPLAY ON STANDARD VOLTMETERS, INSTEAD OF SPECIAL METERS WITH QUADRATIC SCALE FOR POWER, & LOGARITHMIC SCALE FOR SWR.

SCALE: 0-10V FOR SWR 10/1 MAX. 1V = SWR 1/1, 10V = SWR 10/1 (SWR 10/1 = ~67% OF REFLECTED POWER)

SCALE: 0-1 V FOR 1 kW, 0-2 V FOR 2 kW, 0-3 V FOR 3 kW, 0-5 V FOR 5 kW, 0-10 V FOR 10 kW, 0-20 V FOR 20 kW

LOW COST 85C1 VOLTMETERS WITH SCALES 1, 2, 3, 5, 10 OR 20 V DC CAN BE USED.

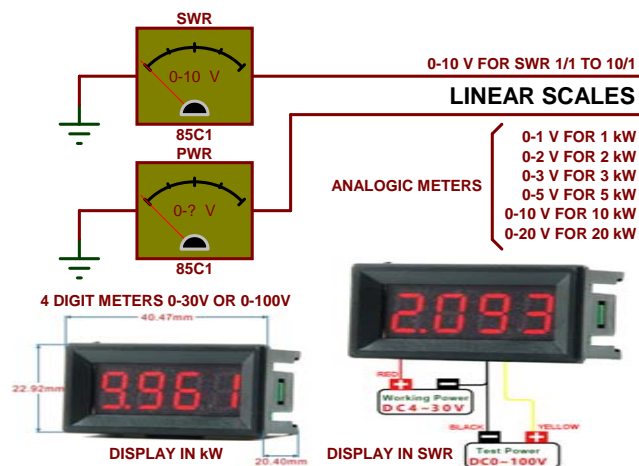
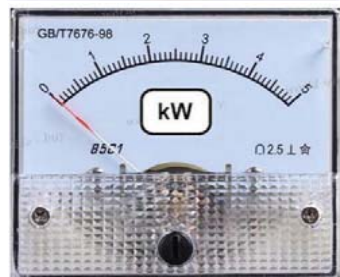
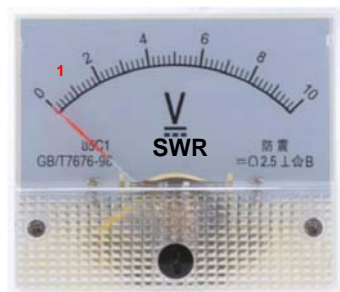
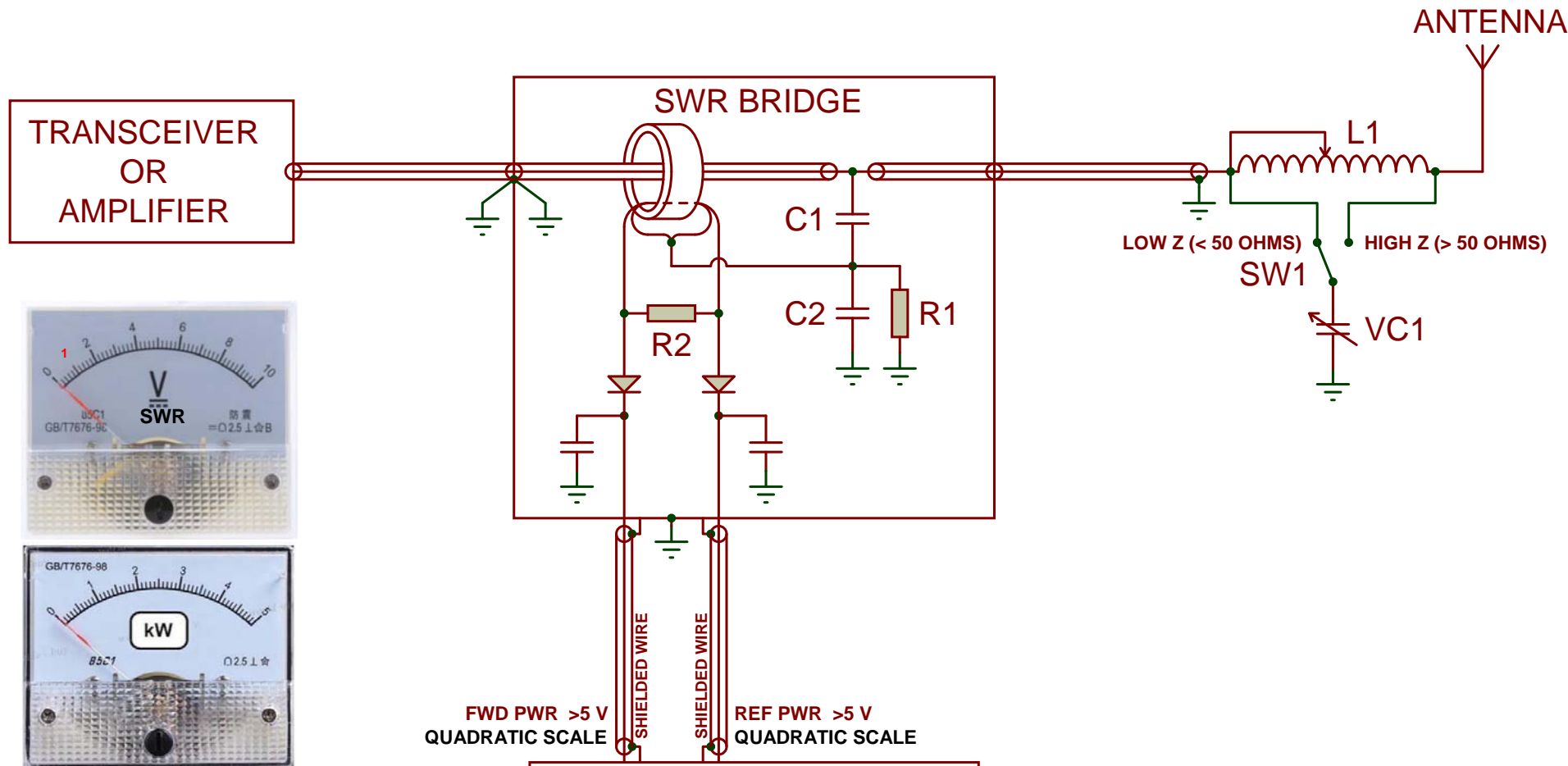
LOW COST 4 DIGIT LED DC 3 WIRES VOLTMETERS 0-30 V OR 0-100 V CAN ALSO BE USED.

REV 2: REPLACED OLD R4 820 OHMS BY A 15 V ZENER DZ3. R13 BECOMES R4

J5, J6, R3, DZ3, Q1 ARE NOT NEEDED IN NORMAL OPERATION
THEY ARE USED ONLY FOR PROTYPE DEBUGGING.

**POWER & SWR CURVES LINEARISATION & AUTOMATIC SWR
TO BE USED DOWNSTREAM SWR BRIDGE**

DATE: 04/2025 REV: 2 PAGE: 1/2
BY: f1frv@sfr.fr
DOC N°: AMATEUR RADIO



**LINEARISATION FOR
POWER & SWR SCALES
AND
AUTOMATIC SWR**

DC SUPPLY
13 - 28 V
50 mA

VOLTMETERS ARE NOT SUPPLIED WITH KIT !!

**POWER & SWR CURVES LINEARISATION & AUTOMATIC SWR
PRINCIPLE SCHEMATIC**

