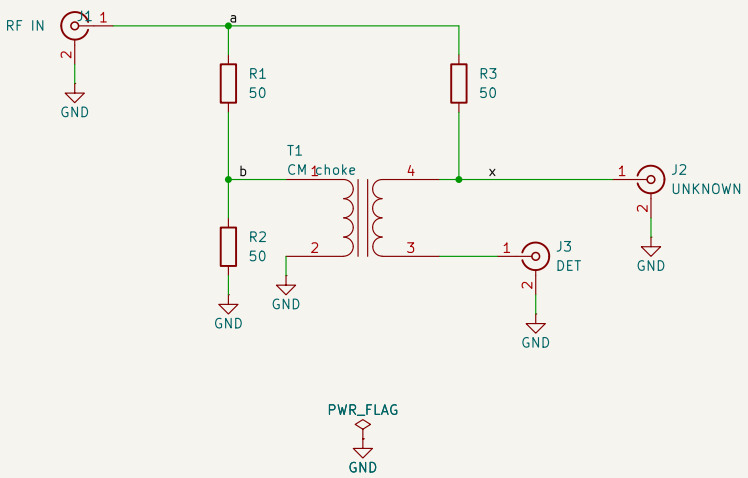


R1–R3: 50 ohm (use 49.9 ohm 1% or matched 51 ohm, short leads). T1 decouples the floating bridge arm from the grounded detector.

Return loss RL = −20 log|rho| (EMRFD Eq 2.30 as corrected by the errata). Null depth sets the best measurable RL.

Redrawn for QRPedia by NT7S; J1–J3 are the RF, unknown and detector ports
T1 core and turns not given in EMRFD. Eq 2.30 errata: RL = −20 log|rho|
Source: EMRFD (Hayward, Campbell, Larkin) Fig 2.44, p. 2.16. Errata: affects-circuit (p. 2.16, Eq 2.30

QRPedia Circuit Library

Sheet: /
File: return-loss-bridge.kicad_sch

Title: Return-loss bridge, 50 ohm

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