

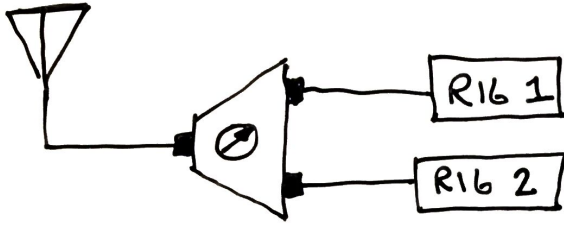
TEK TIPS

W2AEW

Q: CAN I USE A COAX SWITCH W REVERSE?
(SWITCH ANTENNA TO MULTIPLE RIGS)

QUICK ANSWER: YES! (IN MOST CASES)

... LET'S INVESTIGATE FURTHER...



- USE SWITCHES THAT

- GROUND THE UNUSED PORTS

- HAVE A SPECIFICATION FOR "ISOLATION"

- LETS LOOK AT THE NUMBERS...

• MAXIMUM SAFE INPUT POWER TO RECEIVER

- ROB SHERWOOD SAYS +20dBm IS SAFE

- THATS 100mW

- THAT'S ALSO 93dB OVER S9

- EXTRA CAUTIOUS - DROP ANOTHER ORDER OF MAG

- 10mW OR +10dBm

(59 + 83dB)

- 100W HF R16 \longrightarrow +50dBm

- 1500W LEGAL LIMIT \longrightarrow +62dBm

SWITCH ISOLATION NEEDED

100W RIG +50 dBm

SAFE Rx INPUT +10 dBm

ISOLATION NEEDED 40dB

1500W TX +61.76 dBm

SAFE Rx INPUT +10 dBm

ISOLATION NEEDED: 51.76dB

MOST COAX SWITCHES ARE

RATED WITH 60dB OR MORE

WHEN IN DOUBT - TEST