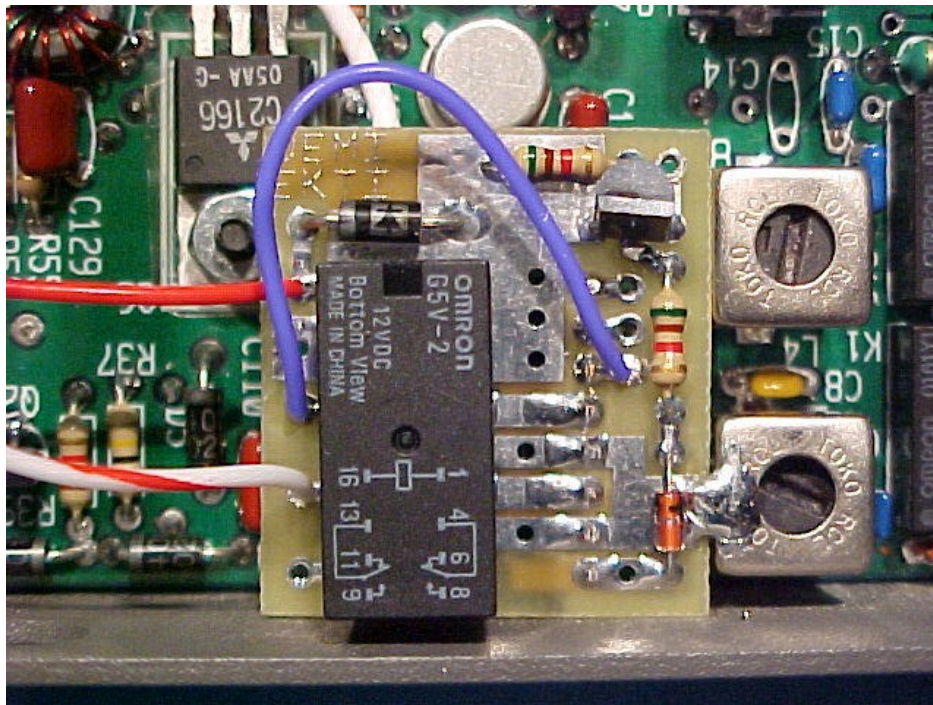


DEM EKI Elecraft K2 Transverter Interface

CIRCUIT DESCRIPTION

This DEM EKI transverter interface is specifically designed to interface the J-13 connector in Elecraft's K2 transceiver to a common IF port transverter (receive and transmit on same coax) such as the 144-28EC. The EKI will provide the TX drive level available from the K2 (+0 to +3dBm) at 28 MHz. This interface utilizes the "8R Hold" keying signal which is a positive voltage on receive, and couples it to the transverter via the IF coaxial line. The interface also includes a buffer stage on the "8R" signal to key other devices you may have in your transverter system. When the EKI is enabled, it will provide a disable signal to the K2's final output transistors to prevent the transceiver from transmitting on 10 Meters when the transverter is being used. This interface is required with the DEM 144-28EC transverter but may also be used with other transverters that have similar requirements. Or use the options listed below.



If using this interface with other than the DEM144-28EC Transverter

1. The PTT-L input is Low on receive, High on transmit. It may need to be inverted to operate with most transverters by connecting CR1 to the 8T signal but the "hold" of the "8R" function will be lost.
2. The +DC can come from the transverter power switch so that when the transverter is powered on the interface is switched on.
3. If separate transmit and receive lines are required, a second relay should be used due to the transverter port pick off of the J13 connector in the K2.
4. The interface may be used as a connection for a secondary receive antenna but may not be desired because it bypasses some of the band pass filters. See schematic of K2.