

ALEX Production Release Version P1.41

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Notes: Pricing is several years old, so don't depend on anything.

Special Manufacturing Notes:

Installation of the relays is position critical. Observe the position mark on both the relay housing and the board silkscreen for proper orientation.

In particular, the transmit board relays can be installed in two directions, one of which won't work, and they are extremely hard to unsolder without an oven.

The LEDs are polarity sensitive, and the RED LED has opposite mechanical polarity to the GREEN and YELLOW LEDs. For Green and Yellow LEDs, the two green dots which are on either side of the LED die are on the negative end. For Red LEDs, the two green dots, which are either side of the die, are on the positive end. Builder Beware!

The right angle SMB connectors are installed on the BACK SIDE of the PC Boards.

**The Receive board ribbon cable is to be installed on the BACK SIDE of the PC board.
The Transmit board ribbon cable is to be installed on the FRONT SIDE of the PC board.
The Transmit board auxilliary 4 pin connector goes on the top side of the board.
OBSERVE THE SILKSCREEN FOR POSITIONS OF THESE CONNECTORS.**

**The electrical values for the inductors are measured...
at 4 MHz for RED cores, at 10 MHz for BLACK cores, and 20 MHz for YELLOW cores.
Expected tolerance is +/- 5 percent for the BLACK cores
and +/- 10 percent for the RED and YELLOW cores.**

**The PCBs have a different stack-up order for the inner layers.
Refer to the "READ-ME" files included in the PCB ".zip" packages.
There are "cut-out" windows which allow viewing test on the inner layers after PCB fabrication. If the text is not viewable through the windows, or is backwards,**

then the boards were not built correctly.

The bottom side solder paste stencil Gerbers are empty. Throw them away if present.

There are no surface mount parts on the bottom of either of the boards.