## Item specifics

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| --- | --- | --- | --- |
| Condition: | New: A brand-new, unused, unopened, undamaged item in its original packaging (where packaging is ... [Read more](javascript:;) | To Fit: | Ham Radio Transceiver |
| MPN: | Easy Digi PCB Kit | Country/Region of Manufacture: | United States |
| Brand: | EASY DIGI™ | Type: | Digital Interface |
| UPC: | Does not apply |  |  |

**A 2 PACK OF The KF5INZ “EASY DIGI™” circuit PC board KIT**

**No, we didn’t re-invent the wheel, we just made a convenient, single board, isolated, digital interface that works for almost all of the digital modes on HF and VHF/UHF. Works with DIGIPAN, FLDIGI, MTTY, MMSSTV and most all other sound card programs! Work PSK-31, PSK-63, RTTY, SSTV, NBEMS, plus many other modes on your HF or VHF/UHF rig.**

**Nothing new about this technology, it consists of two 600 ohm line transformers for audio input and output from your pc to your transceiver, and an opto-coupled push to talk circuit that works off of an RS-232 port on your computer.**

**·         Transformer coupled audio eliminates ground loops and AC hum on your signal**

**·         Opto Coupled push to talk circuit also eliminates ground loops and false triggering of your PTT lines.**

**·         Very small size, only 2 1/16” x 1 3/8” x .625” high, can be incorporated inside of many radios, with only your RS-232 cable coming outside of the radio.**

**·         Weighs less than 3 ounces**

**·         High quality FR-4, solder masked, silk screened Printed Circuit Board**

**·         Compatible with most modern ham radio transceivers.**

**These interfaces have been tested on many Kenwood , Icom, Yeasu, and other brand radios.**

**Simply assemble and hook up per the enclosed wiring diagram and load your software, configure your com port, turn on the radio and have fun on your favorite digital mode!**

**ITEMS INCLUDED IN YOUR KIT. PLEASE INVENTORY YOUR KIT.**

**1N4001 DIODE                                               1 ea**

**1N4148A DIODE                                            2 ea**

**2.2K 1/4W RESISTOR                                     2 ea**

**430 OHM 1/4W RESISTOR                            1 ea**

**4N25 OPTO COUPLER                                  1 ea**

**.1UFD CAPACITOR                                      2 ea**

**600:600 AUDIO TRANSFORMERS             2 ea**

**PCB                                                                   1 ea**

**Solder                                                                12”**

**It is assumed that you have a 25 – 45 watt soldering iron. Pencil type tips are preferred. Use of a soldering GUN is NOT recommended due to the small sizes of the solder pads and small spacing between pads. You will also need a pair of wire cutters and a pair of needle nose pliers. The 12” of solder supplied should be enough to solder several of these boards – use the solder sparingly – to end up with a professional looking and operating board with no solder shorts. This board should take approximately 15 minutes to assemble and solder.**

**1.)      Using the printed circuit board layout, find the locations for the two 1N4148A Diodes and install them.**

**Observe the polarity. The band on the diode must be oriented to the band on the circuit board layout.**

**Bend the leads so that the diodes lay flat on the circuit board.**

**Solder and clip the leads off close to the board.**

**2.)      Find the locations for the two 2.2k 1/4W Resistors and install them.**

**Bend the leads so that the resistors lay flat on the circuit board.**

**Solder and clip the leads off close to the board.**

**3.)      Find the location for the 430 ohm 1/4W Resistor and install it.**

**Bend the leads so that the resistor lays flat on the circuit board.**

**Solder and clip the leads off close to the board.**

**4.)      Find the location  for the 1N4001 Diode and install it.**

**Observe the polarity.**

**The band on the diode must be oriented to the band on the circuit board layout.**

**Bend the leads so that the diode lays flat on the circuit board.**

**Solder and clip the leads off close to the board.**

**5.)      Find the location for the 4N25 optocoupler IC, and install it.**

**Pin1 of the opto-coupler is indicated by a small circular indentation in the top left corner of the IC.**

**Orient pin 1 of the opto-coupler to the  pin1 location on the circuit board.**

**The leads of the opto-coupler will need to be bent inward a slight amount to fit into the circuit board.**

**After installing the 4N25 optocoupler IC, solder the 6 leads.**

**6.)      Find the location for the two .1ufd capacitors and install them.**

**The capacitors are NOT polarized, so they can be installed either direction.**

**Push the capacitors down close to the board but do not force them completely down or you will break the body of the capacitor.**

**Solder and clip the leads off close to the board.**

**7.)      Find the locations for the two 600 ohm to 600 ohm transformers.**

**Install the transformers in the three centermost holes on both sides of the transformer.**

**Push the transformers down flat against the board and solder the 6 leads of each transformer.**

**8.)      If you use the supplied solder, you do NOT have to clean the circuit board after soldering.**

**9.)      REVIEW:**

**a.        Recheck steps 1 thru 7 above to insure that you have installed the correct parts in the correct locations on the circuit board.**

**b.        Inspect each and every solder joint to insure there are no solder shorts and that every lead is soldered.**

**c.        Insure that all leads have been clipped and that there are no pieces of wires or other debris causing shorts on the circuit board.**

**10.)    Wrap-up:**

**a.        Your board is now complete and ready to be connected to your radio and computer per the enclosed installation drawing.**

**b.      ENJOY the digital modes!**