

KN-Q7A Single Band SSB Transceiver Kit

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The KN-Q7A single band SSB transceiver kit was designed specifically for the worldwide market by BA6BF, and kitted by BD6CR/4. As the upgraded version of the popular KN-Q7 (more than 500 kits were sold worldwide), the KN-Q7A has an improved circuit design and component selection, which makes it an ideal candidate for field operation, back pack and emergency use.

Improvements from KN-Q7

- Improved Low Pass Filter (LPF) circuit to meet the -43 dBc standard
- Added post IF amplifier one pole crystal filter to reduce background noise
- Removed RX/ TX indicator LED to further reduce RX current consumption by about 5 mA
- Added an on-board RF attenuator in the receiver front end to reduce broadcast interference
- Added power polarity protection
- Larger chassis area (+25%) used as heat sink to reduce thermal drift
- More frequency coverage options: support for European calling frequency 7.090 MHz and American calling frequency 7.285 MHz
- Matched IF filter crystals to ensure good selectivity
- Improved part selection, and reduction of SMD part count to just one transistor

Specifications

- Dimension: 153 mm x 97 mm x 40 mm, not including protruding features

- Weight: less than 500 g or 1.1 lbs
- Power Supply: 12~13.8 V, 3 A
- Current consumption: 30 mA in RX and about 2 A in TX @ 13.8 V
- RF output: about 10 W PEP @ 13.8 V
- Spur suppression: better than -43 dBc
- Sensitivity: about 0.5 μ V at 10 dB SNR
- IF filter: 6 pole crystal ladder filter + 1 pole post IF amplifier crystal filter
- IF bandwidth: about 2.0 kHz
- IF frequency: 8.467 MHz or 8.192 MHz, depending on the selected tuning range
- Frequency tuning range: about 20 kHz in VXO type. Five options: 7.050~7.070 MHz, 7.080~7.100 MHz, 7.145~7.165 MHz, 7.200~7.220 MHz, or 7.280~7.300 MHz
- Connectors:
 - Speaker output: 3.5 mm connector, mono output
 - Microphone input: 8-pin, can be configured to be compatible with electret microphones
 - Antenna connector: SL-16 type (M or SO-239 type equivalent), rear panel mount
- Controls:
 - IF Gain Control: act as volume control
 - Tune Control

Documentations

- **Quick Guide:** English, Spanish and Japanese
- **Full Manual:** English, Spanish and Japanese
- **Part List:** English, Spanish and Japanese
- **Drilling Template:** No text, only drawing

Price List and Payment

Kit 115 USD, Assembled Kit 155 USD, Optional microphone 20 USD, Optional Internal Speaker 4 USD. Air shipping and handling 14 USD each for Asia and 23 USD each for worldwide. We accept paypal rongxh@gmail.com. Should you have any questions or inquiries, email us to bd6cr@crkits.com or join and send post to http://groups.yahoo.com/group/CHINA_QRP..