













Changes V1.1: * TX and CWMIC signals should go via relay drivers not directly from the Pico * changed tantalum to VE-470M1CTR-0505 electro * fixed relay footprint * fixed phones footprint (was 2.5mm) * changed volume to PCB mount footprint * U6 was reversed! * Added connector for paddle * Added bypass caps to U21 and U22 (ULQ2003) * Reversed B1-B5 for easier PCB layout * Added connector for power switch * Update bandpass filter inductor footprint to accept 0805 and 1206 devices V1.2: * Part number for VCXO was incorrect - should be FOX914 (not FOX924) * Added R98 so that DC reference for ADC is 1.66V (instead of 2.5V) * Updates to crystal filter capacitor values using LCSC crystals: SSB 82p, CW 330p, Dig 47p * Added R99 and R100 to reduce potential ringing on VFO and BFO * changed R29, R31 and R32 to 1M to improve AGC * Added limiting diodes D6 and D7 to AGC * Update to AGC based on a design idea in EDN August 2005 * Changed L3 to 15u SM inductor V1.3: * Added T50-6 winding details * Change R44 to 0 TODO: * power switch - done power on LED * speaker connector? * use PCB mount volume - done * heatsink for Q2 * add I2C connector https://github.com/earlephilhower/arduino-pico/releases/download/global/package_rp2040_index.json https://www.aliexpress.com/i/4000152810614.html https://learn.adafruit.com/adafruit-1-14-240x135-color-tft-breakout/pinouts https://github.com/hideakitai/TCA9534 https://github.com/etherkit/Si5351Arduino https://github.com/Bodmer/TFT_eSPI https://github.com/brianlow/Rotary https://github.com/adafruit/Adafruit_ZeroFFT TITLE: HySSB - Notes REV: 1.2 Company: VK7IAN Sheet: 1/1 **EasyEDA** Date: 2021-10-29 Drawn By: ianm