

W7RY QSK Board (Ver. 2.9)

Parts List

C1 1000 uf 16 volt 140-REA102M1CBK1016P

C2-C6, C8, C13 0.01u 100v disk 140-100Z5-103Z-RC

C10 0.01u 500v disk 140-500Z5-103Z-RC

C7 47uf/200V 647-UVR2D470MHD

C9 470 pF 140-500P5-471K-RC **(Optional. Can slow down relays)**

C11 22 pF Mica 598-CD15ED220JO3F **(From the N.O. contacts of K1 and K2 to ground)**

C12 0.001u 50 disk 140-50Q5-102Z-RC

CR1-2 Bridge rectifier 625-DF04MA-E3

D1, D6, D7 1N4007 821-1N4007

D8 1N5408 821-1N5408

J1 Vertical 538-22-23-2121 (RT Angle 538-22-05-3121) (female plug 538-22-01-2127)

J2 Right Angle 538-26-60-5040 (Vertical 538-26-60-4040) (female plug 538-09-50-3041)

J3 Vertical 538-22-23-2041 (Right Angle 538-22-05-3041) (female plug 538-10-11-2043)

MOV1 576-V130LA10AP

Q1, Q2 Q4, Q5, Q8 2N3904 512-2N3904TA

Q3 MPSA42 512-MPSA42_J18Z

Q6 ZVN3306A 522-ZVN3306A

Q7 TIP147 512-TIP147TU

R1, R2 220 291-220-RC

R3, R4, R7 1K 291-1K-RC

R5, R8 4.7K 291-4.7K-RC

R6	22K	291-22K-RC
R10	47K	291-47K-RC
R9, R11	620	291-620-RC
R12	220/2W	660-MOS2CT52R221J
R13, 14	330/2W	660-MOS2CT52R331J
R15	2K/2W	660-MOS2CT52R202J
R16	10K 10 turn vertical pot	858-64WR10KLF
R17	100 .5w	293-100-RC
R18	47 .5w	293-47-RC
R19	240 1w	281-240-RC (Across the coil of K1)
R20	390	291-390-RC (In series with D1 across K2)
R21, 24	100k	291-100K-RC
R22	68k	291-68K-RC
R23	2.2k	291-2.2K-RC
R25	1 Ohm	291-1.0-RC
R26	10K	291-10K-RC
U1	TL-431	512-TL431ACZ

Miscellaneous Parts

Board mounting spacer 534-8716

Q7 mounting insulator 532-4180

P1 and P3 (J1 and J3) plug pins 538-08-52-0123 (16 required)

P2 (J2) plug pins 538-08-50-0106 (4 required)

Meter and TX & Standby LEDs 604-WP7104VW1C (6 needed for TL-922)

Part Numbers shown are Mouser part numbers. www.mouser.com

K1 Reed Relay High speed reed relay from W7RY

K2 Vacuum Relay RJ1A-26N969 or RJ1A-26S or Kilovac HC-1, VHC-1 or similar with less than or equal to 8 ms switching time vacuum relay with a 335 Ohm 26.5 Volt coil. Available from:
<http://www.mgs4u.com/RF-Microwave/vacuum-relays-SPDT.htm>