



P3ST Transceiver Kit / Master Parts List

1.17.2025

Capacitors	Qty	Source & Part Number	Ea	Ext
0.01μF, ceramic, 0.20" LS	1	Mouser 80-C322C103K5R-TR	\$0.150	\$0.15
0.01μF, ceramic, 0.10" LS	1	Digikey 399-13905-1-ND	\$0.140	\$0.14
0.047μF, ceramic, 0.2"	1	Digikey 1C20X7R473K050B-ND	\$0.176	\$0.18
0.047μF, ceramic 0.10" LS	1	Digikey BC1082CT-ND	\$0.218	\$0.22
0.1μF, ceramic, 0.20" LS	9	Mouser 80-C318C104K5R5TATU	\$0.154	\$1.39
0.1μF, ceramic 0.10" LS	13	Digikey 399-C320C104K5R5TA7305CT-ND	\$0.063	\$0.82
0.22μF, ceramic, 0.10" LS	1	Digikey 445-181223-ND	\$0.180	\$0.18
1.5pF, hand-made "gimmick"	1	(salvage 20-24AWG solid wire)	\$0.000	\$0.00
100μF, electrolytic, radial, pins 0.1"	2	Digikey 732-8825-1-ND	\$0.110	\$0.22
10μF, electrolytic, radial, pins 0.1"	2	Digikey 4191-EM1H100MP26307F2P9UCT-ND	\$0.190	\$0.38
10μF, SMD	2	Digikey 478-CM105X5R106K16ATCT-ND	\$0.147	\$0.29
14.8pF, trim capacitor	2	Digikey 2447-GKG30015-ND	\$0.690	\$1.38
220pF, NP0/C0G ceramic 0.20" LS	2	Digikey 399-13974-2-ND	\$0.140	\$0.28
220pF, NP0/C0G 0.10" LS	1	Digikey 399-C315C221J1G5HA7303CT-ND	\$0.160	\$0.16
220uF, SMD	2	Digikey 399-6680-1-ND	\$0.530	\$1.06
220μF, electrolytic, radial, pins 0.1"	3	Digikey 732-8634-1-ND	\$0.150	\$0.45
22μF, electrolytic, radial, pins 0.1"	2	Digikey 732-8767-1-ND	\$0.110	\$0.22
330pF, NP0/C0G ceramic 0.20" LS	2	Digikey 399-4231-ND	\$0.140	\$0.28
39pF, trim capacitor	2	Digikey 2447-GKG60015-ND	\$0.690	\$1.38
470μF, electrolytic, radial, pins 0.1"	2	Digikey 732-8708-1-ND	\$0.130	\$0.26
47pF, NP0/C0G ceramic 0.20" LS	1	Digikey 399-14095-1-ND	\$0.210	\$0.21
47pF, NP0/C0G ceramic 0.10" LS	7	Digikey BC1009CT-ND	\$0.060	\$0.42

Crystals	Qty	Source & Part Number	Ea	Ext
Crystal, HC49u, 4.915MHz	10	Digikey X1014-ND	\$0.463	\$4.63

Diodes	Qty	Source & Part Number	Ea	Ext
PMEG2010ER SMD	1	Digikey 1727-5192-1-ND	\$0.183	\$0.18
1N4148 DO-35	4	Digikey 1N4148FS-ND	\$0.020	\$0.08

Hardware	Qty	Source & Part Number	Ea	Ext
Screw/Nut, 4-40	1	Ace Hardware	\$0.050	\$0.05
TO-220 Black / Wakefield-Vette	1	Digikey 345-1020-ND	\$0.440	\$0.44
TO-39 Black Crown / Boyd Laconia	1	Digikey 325705B00000G-ND	\$2.060	\$2.06

Headers	Qty	Source & Part Number	Ea	Ext
Pin header, 1x2, straight	2	Amazon / HiLetgo (from 40-pin, 0.10")	\$0.030	\$0.06
Pin header, 1x3	3	Amazon / HiLetgo (from 40-pin, 0.10")	\$0.050	\$0.15
Pin header, 1x4, right-angle	22	Amazon / Ruiwaer (from 40-pin, 0.10")	\$0.090	\$1.98
Female socket header 1x4	22	Digikey S7002-ND	\$0.232	\$5.10
Jumper block, 2pin, 0.10" LS	3	Amazon / California JOS	\$0.050	\$0.15

Inductors	Qty	Source & Part Number	Ea	Ext
22μH, molded, axial	5	Digikey 118-77F220K-TR-RCCT-ND	\$0.170	\$0.85
22μH, molded, radial	1	Digikey 495-6964-1-ND	\$0.244	\$0.24
680μH SMD	1	Digikey 445-180928-1-ND	\$0.198	\$0.20

Integrated	Qty	Source & Part Number	Ea	Ext
LM380N, 14-pin	1	Digikey 296-LM380N/NOPB-ND	\$1.090	\$1.09
ADE-1	2	Digikey 3157-ADE-1+CT-ND	\$4.930	\$9.86
LM317L, 3.3V regulator TO-92	1	Digikey LM317LZRAGOSCT-ND	\$0.490	\$0.49
TLV1117LV-3.3 Regulator, SMD	1	Digikey 296-21112-1-ND	\$0.278	\$0.28

Modules	Qty	Source & Part Number	Ea	Ext
LCD Display, 16x2, 5V, I2C	1	Amazon / Teyleten	\$2.780	\$2.78
Rotary Encoder Module, KY-040	1	Amazon / TAISS	\$2.000	\$2.00
XIAO 2040	1	Seeed Studios (direct)	\$3.500	\$3.50
Si5351A, clone,	1	Amazon / Teyleten	\$3.960	\$3.96

Potentiometers	Qty	Source & Part Number	Ea	Ext
10K trim pot	1	Digikey 3362P-103LF-ND	\$0.910	\$0.91
10K Audio Taper	2	Mouser 652-PDB181E420K103A2	\$0.970	\$1.94

Relays	Qty	Source & Part Number	Ea	Ext
DPDT, 12V	3	Digikey TX2-12V	\$1.710	\$5.13
SPDT, 12V	1	Digikey J102K1CS312VDC.20	\$0.935	\$0.94

Resistors	Qty	Source & Part Number	Ea	Ext
10 1/4W carbon film	5	Digikey 13-CFR-25JR-52-10RCT-ND	\$0.010	\$0.05
100 1/4W carbon film	3	Digikey 13-CFR-25JT-52-100RCT-ND	\$0.020	\$0.06
100K 1/4W carbon film	2	Digikey 13-CFR-25JT-52-100KCT-ND	\$0.020	\$0.04
1K 1/4W carbon film	5	Digikey 13-CFR-25JT-52-100RCT-ND	\$0.020	\$0.10
2.2 1/4W carbon film	1	Digikey 2.2QBK-ND	\$0.010	\$0.01
2.2K 1/4W carbon film	2	Digikey 13-CFR25SJT-52-2K2CT-ND	\$0.020	\$0.04
2.7K 1/4W carbon film	2	Digikey 13-CFR-25JT-52-2K7CT-ND	\$0.020	\$0.04
270 1/4W carbon film	1	Digikey 13-CFR-25JR-52-270RCT-ND	\$0.020	\$0.02
330 1/4W carbon film	1	Digikey 13-CFR-25JT-52-330RCT-ND	\$0.020	\$0.02
3K 1/4W carbon film	4	Mouser 603-CFR-25JB-52-3K	\$0.010	\$0.04
4.7K 1/4W carbon film	2	Digikey 13-CFR-25JT-52-4K7CT-ND	\$0.020	\$0.04
47K 1/4W carbon film	2	Digikey 13-CFR-25JT-52-47KCT-ND	\$0.020	\$0.04
51 1/4W carbon film	2	Digikey 13-CFR-25JR-52-51RCT-ND	\$0.020	\$0.04
680 1/4W carbon film	4	Digikey 13-CFR-25JT-52-680RCT-ND	\$0.020	\$0.08

Toroids	Qty	Source & Part Number	Ea	Ext
T50-7 toroid core	7	kitsandparts.com	\$0.210	\$1.47
FT50-43 Toroid Core	1	kitsandparts.com	\$0.400	\$0.40

Transistors	Qty	Source & Part Number	Ea	Ext
2N2222A (TO-18)	5	EBay / LF Components	\$0.800	\$4.00
2N2219A (TO-39/TO-5)	1	Jameco 38228	\$1.420	\$1.42

IRF510 MOSFET TO-223	1	Digikey IRF510PBF-ND	\$0.780	\$0.78
IRF9Z24NPBF P-Channel MOSFET	1	Digikey IRF9Z24NPBF-ND \$0.75	\$0.750	\$0.75

Wire & Cable	Qty	Source & Part Number	Ea	Ext
3-Conductor Cable, R-G-W, 22AWG	2ft	Amazon / AOTOINK	\$0.160	\$0.32
Coax, RG174	6ft	Amazon / MOOKEERF	\$0.260	\$1.66
Magnet Wire, 26AWG	102"	Amazon / BINNEKER		\$0.10
Magnet Wire, 27AWG, Red, Green	1	Amazon /	\$0.100	\$0.10