

## SMT TT2 Transmitter (40 meters)

Part	Desc	Mouser PN/Source
R0	0 jumper	263-0-RC
R1	4.7k	263-4.7K-RC
R2	47k	263-47K-RC
R3	220	263-220-RC
R4	100	263-100-RC
R5, R9	1k	263-1.0K-RC
R6	8.2k	263-8.2K-RC
R7	6R8	263-6R8-RC
R8	100 trim pot	PVG3A101C01R00
R10	2.2k	263-2.2K-RC
C1, C3	.01uF	581-12065C103J
C2	100pF	581-12065A101J
C4	220pF	581-12065A221J
C5, C11, C12	.1uF	80-C1206C104K5RAL
C6, C10	330pF	581-12065A331J
C7	47pF	581-12065A470J
C8	680pF	581-12065A681J
C9	150pF	581-12065A151J
C13	10uF	647-UWX1C100MCL2
Q1	2n2222A	512-MMBT2222A (SOT-23)
Q2	2n2222A	512-PZT2222A (SOT-223)
Q3	2n3906	512-MMBT3906 (SOT-23)
L1	22uH	871-B82422H1223K

1/32 4x6 FR-4 presensitized PCB Mouser # 590-687  
 MG Chemicals copper clad boards

Silver-Bearing Solder .015 dia = Radio Shack 64-035 E

## SMT TT2 Transmitter (40 meters) cont.

Part	Desc	Mouser PN/Source
See Schematic for Info		
L2	T25-2 (1.2uH)	Toroid
L3	T25-2 (0.85uH)	Toroid
T1	FT23-43 (10t / 5t)	Toroid
X1	70xxkHz Cylindrical ESS	
PCB	W5USJ Art	Website

## SMT RF Probe

R1	4.3M	263-4.3M-RC
C1	.01uF	581-12065C103J
D1	1N5711	621-1N5711WS-F
PCB	W5USJ Art	Website

## SMT PK-DC Keyer

R1, R2	4.7k	263-4.7K-RC
R3, R4	100k	263-100K-RC
C1, C2, C3	.001uF	581-12065C102J
C4, C5	.01uF	581-12065C103J
C6	10uF	647-UWX1C100MCL2
C7, C8	.1uF	80-C1206C104K5RAL
Q1, Q2	2n2222A	512-MMBT2222A (SOT-23)
Q1, Q2 (alt's)	2N7002	512-NDS7002A (SOT-23)
U1	PK-DC	Jackson Harbor
U2	5V Reg 1.2uA	628-812C50AU-G
PCB	W5USJ Art	Website

ESS Cylindrical Crystals  
<http://www.expandedspectrumsystems.com/prod4.html>

Jackson Harbor PK-DC SOIC Keyer Chip  
<http://jacksonharbor.home.att.net/ham.htm>

# Surface Mount LOMs

W5USJ 18 Jun 09

## SMT MRX-40 Receiver (40 meters)

Part	Desc	Mouser PN/Source
R1, R5	10k pot	313-1200F-10K
R2	51	263-51-RC
R3	10k	263-10K-RC
R4, R6	100k	263-100K-RC
R7	10	263-10-RC
R8	1k	263-1.0K-RC
C1, C4	8-45pF trim	81-TZY2K450A001R00
C2, C8	82pF	581-12065A820J
C3	470pF	581-12065A471J
C5, 10, 11, 12, 13, 16, 17...	.1uF	80-C1206C104K5RAL
C6	.022uF	581-12065A223K
C7	220pF	581-12065A221J
C9	Not Used	
C14, 15	10uF	647-UWX1C100MCL2
Q1	NDS7002A	512-NDS7002A
U1	SA612 SOIC	771-SA612AD/01-T
U2	LM386 SOIC	513-NJM386E
L1, L3	22uH	871-B82422H1223K
L2	4.7uH	871-B82422H1472K
X1	70xxkHz Cylindrical ESS	
PCB	W5USJ Art	Website

## SMT MRX-40 Receiver (cont.)

D1, D2, D5	LL-4148	512-FDLL4148 (LL-34)
D3, D4	S1G/1N4004	512-S1G (SMA)
D6	1N5233B	512-MMSZ5233B (6V)

## SMT T/R Switch

R1	51	263-51-RC
R2	1k	263-1.0K-RC
R3	47k	263-47K-RC

C1	.01uF	581-12065C103J
C2, 3, 6, 7	.1uF	80-C1206C104K5RAL
C4	2.2uF	647-UWX1V2R2MCL2
C5	10uF	647-UWX1C100MCL2

K1	DPDT Relay	769-AGQ200A4H
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D1, D2	LL-4148	512-FDLL4148 (LL-34)
Q1	2N2222A	512-MMBT2222A (SOT-23)
U1	5V Reg 1.2uA	628-812C50AU-G (SO-89-3)

PCB	W5USJ Art	Website
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Silver-Bearing Solder .015 dia = Radio Shack 64-035 E,

ESS Cylindrical Crystals

<http://www.expandedspectrumsystems.com/prod4.html>