

**TJ4A MAIN BOARD****RESISTOR**

R1	1K	R51	10K	R101	1K
R2	300	R52	10K	R102	56
R3	18	R53	10K	R103	2.2
R4	300	R54	300K*	R104	10
R5	470	R55	4.7K	R105	10K
R6	1K	R56	10K	R106	4.7K
R7	56	R57	4.7K	R107	10K
R8	5.6	R58	10K	R108	4.7K
R9	100 1/4W	R59	10K	R109	22K
R10	150	R60	10K	R110	10K
R11	36	R61	10K	R111	100
R12	150	R62	22K	R112	10K
R13	220	R63	10K	R113	10K
R14	4.7K	R64	470		Between Pins of 2 and 5 of CN5
R15	100K	R65	4.7K	VR1	10K
R16	100K	R66	36	VR2	33K
R17	100K	R67	36	VR3	10K
R18	100K	R68	10K	VR4	10K
R19	100K	R69	4.7K	VR5	10K
R20	10K	R70	470		
R21	6.8K	R71	47K		
R22	47K	R72	100		
R23	6.8K	R73	1K		
R24	10K	R74	22K		
R25	220	R75	300		
R26	4.7K	R76	18		
R27	680	R77	300		

**CRYSTAL**

Y1 - Y7 9MHz

Note: Manufacturer has printed 8 MHz on the 9 MHz crystal case.

R28	10K	R78	100
R29	4.7K	R79	470
R30	470	R80	470
R31	1K	R81	470 1/4W
R32	22K	R82	100 1/4W
R33	100	R83	220 1/4W
R34	10	R84	100 1/4W
R35	10 1/4W	R85	220 1/4W
R36	10	R86	100 1/4W
R37	10 1/4W	R87	220 1/4W
R38	10K	R88	100 1/4W
R39	10K	R89	220 1/4W
R40	22K	R90	470 1/4W
R41	1K	R91	470
R42	1K	R92	1K
R43	100	R93	1K
R44	10K	R94	2.2K
R45	1K	R95	4.7K
R46	100	R96	5.6
R47	100	R97	470
R48	10K	R98	470
R49	10K	R99	10
R50	10K	R100	470

## CAPACITOR

C1	103	C51	103	C101	20P
C2	103	C52	101	C102	151
C3	103	C53	103	C103	2P

C4	103
C5	103
C6	103
C7	471
C8	221
C9	103
C10	47P
C11	103
C12	103
C13	47P
C14	103
C15	103
C16	10UF
C17	103
C18	10UF
C19	103
C20	103
C21	101
C22	103
C23	104
C24	20P* or 4.3P
C25	103
C26	103
C27	104
C28	104
C29	103
C30	103
C31	103
C32	104

C54	1P
C55	104
C56	103
C57	103
C58	103
C59	33P
C60	103
C61	104
C62	104
C63	104
C64	104
C65	104
C66	103
C67	104
C68	821
C69	821
C70	103
C71	104
C72	2P
C73	103
C74	104
C75	104
C76	471
C77	103
C78	103
C79	103
C80	101
C81	271
C82	12P

C104	151
C105	20P
C106	103
C107	103
C108	103
C109	103
C110	103
C111	103
C112	103
C113	103
C114	103
C115	472
C116	104
C117	103
C118	103
C119	821
C120	NC
C121	NC
C122	NC
C123	470UF
VC1	BROWN
VC2	GREEN

C33	103	C83	271
C34	10UF	C84	101
C35	220UF	C85	103
C36	104	C86	103
C37	220UF	C87	47P
C38	104	C88	221
C39	104	C89	4.3
C40	103	C90	221
C41	10UF	C91	47
C42	220UF	C92	103
C43	104	C93	103
C44	1UF	C94	20P
C45	1UF	C95	101
C46	104	C96	2P
C47	101	C97	101
C48	101	C98	47P
C49	103	C99	103
C50	20P* or 12P	C100	103

## SEMICONDUCTOR

D1	4148	U1	HSB88WS	Q1	2N4427
D2	NC	U2	LA1201	Q2	J6
D3	NC	U3	NE602	Q3	J6
D4	4148	U4	LM386	Q4	J6
D5	1SV49	U5	LM386	Q5	108
D6	1SV49	U6	12F509	Q6	108
D7	1SV49	U7	78L08	Q7	108
D8	1SV49	U8	NE602	Q8	NC
D9	1SV49	U9	ULN2004 or ULN2003	Q9	9018

D10	4148
D11	7V2
D12	4148
D13	4148
D14	4148
D15	4148
D16	1N60
D17	1N60
D18	3V3
D19	4148
D20	4148
D21	4148
D22	4148
D23	4148
D24	4148
D25	7V2
D26	4148
D27	4148
D28	4148
D29	4148
D30	4148
D31	4148
D32	4148
D33	4148
D34	4148
D35	4148
D36	4148
D37	4148
D38	4148

U10	S6
U11	S6
U12	S6
U13	S6

Q10	V11
Q11	J6
Q12	J6
Q13	J6
Q14	J6
Q15	J6
Q16	J6
Q17	A1015
Q18	108
Q19	J6
Q20	108
Q21	V11
Q22	108
Q23	3355
Q24	2N4427
Q25	A1015
Q26	A1015
Q27	9014

D39

4148

**INDUCTOR**

L1	T37-2 toroid	RFC1	100UH	or 220uH	color code inductor
L2	Part Number 3	RFC2	100UH	or 220uH	color code inductor
L3	Part Number 3	RFC3	100UH	or 220uH	color code inductor
L4	Part Number 3	RFC4	100UH	or 220uH	color code inductor
L5	Part Number 3	RFC5	100UH	or 220uH	color code inductor
L6	Part Number 2	RFC6	100UH	or 220uH	color code inductor
L7	Part Number 2	RFC7	100UH	or 220uH	color code inductor
L8	Part Number 1	RFC8	100UH	or 220uH	color code inductor
L9	Part Number 1	RFC9	100UH	or 220uH	color code inductor
L10	Part Number 0	RF10	100UH	or 220uH	color code inductor
L11	Part Number 0				

T1	Mixer Coil	(PCB bottom side)
T2	Mixer Coil	(PCB bottom side)
T2	Broad Band Transformer	(PCB top side)
T3	Broad Band Transformer	
T4	9MHZ Can	No part Number
T5	9MHZ Can	No part Number
T6	Broad Band Transformer	
T7	Broad Band Transformer	
T8	Broad Band Transformer	

**RELAY**

RL1	TQ2	
RL2	TQ2	
RL3	G5V-1	or TR5V L-S-Z