

JUMA-RX1 RX-MAIN board 14.10.2005

Part number	Description	Value / type	pcs	Note
R10	Resistor SMD size 1206	10R	1	
R23, R38		33R	2	
R14, R22		470R	2	
R21, R20		1k	2	
R11, R24		2k2	2	
R5, R25		2k7	2	
R1, R40		4k7	2	
R2, R8, R13, R15, R16, R17, R19, R26, R27, R36, R44		10k	11	
R4		33k	1	
R6, R41		47k	2	
R31		68k	1	
R3, R28, R29, R32, R37, R43		100k	6	Value of R32 and R37 depending on the pot value, see circuit diagram.
R39		150k	1	Check the +8V (7.9V-8.2V), adjust R39 value if needed
R7, R9, R12		1M	3	
C22, C42	Cer capacitor SMD size 1206	47p	2	
C34		100p	1	
C31		180p	1	
C2		330p	1	
C5, C32		470p	2	
C29		820p	1	
C15, C40, C41		1n	3	
C3, C21		4n7	2	
C8, C26, C28, C43		10n	4	
C4		47n	1	
C1, C6, C7, C9, C11, C12, C14, C17, C19, C24, C30, C36, C37, C38, C39, C44, C45		100n	17	
C13, C16, C18, C20, C25, C27, C35	Tantalum Capacitor SMD	4u7/16V Case style B	7	Value range 4u7-10u. Can be replaced by radial Tantalum.
C10, C23		47u/16V Case style D	2	or elko 47u or 100u
R18, R42	Trimmer resistor SMD	100k Bourns 3314J	2	Other SMD cases also suitable
L1, L2	Inductor SMD Case size 1206, 1210 or 1812	1uH	2	
T1	RF transformer	TDK signal filter ZJYS51R5-2PB Farnell code 423-0413 or ZJYS51R5- 2PB-01 Farnell code 962-1270	1	Or home made on Amidon BN-43-2402 ferrite, see description
V1	Diode Double-serial SMD	BAV99 SOT-23	1	or similar Si-diode
V2, V6	NPN AF transistor	BC848B SOT-23	2	or BC846B, BC847B
V7	NPN RF transistor	BFR93A SOT-23	1	or similar, ft>500MHz
V4	Transistor P-JFET SMD	SST177 SOT-23	1	or PMBFJ177 (Vgs-off 0.5-3V)
A1, A2	OPAMP SMD	TL082 SO-8	2	A1 optional LT1113 low noise amp
A3	Speaker amplifier SMD	LM386 SO-8	1	
A4	Voltage regulator SMD	LP2951ACM SO-8	1	or 78L08 SO-8
D1	Analog Muxer SMD	HEF74HC4052 SO-16	1	Use Philips only, see manual
-	PCB	JUMA-RX1-main PCB	1	