

JUMA-TRX1 main board components Rev. B 15.10.2006

Part number	Description	Value / type	pcs	Note
R18	Resistor SMD size 1206	10R	1	
R4, R44, R45, R65		33R	4	
R32, R46, R49, R59, R60		100R	5	
R5, R7, R76		470R	3	
R19, R23, R33, R34, R35, R66		1k	6	
R9		1k5	1	
R3, R37		2k2	2	
R2		2k7	1	
R21, R26, R47, R55, R61, R75		4k7	6	
R1, R6, R8, R15, R22, R24, R25, R27, R29, R40, R42, R43, R48, R54, R57, R58, R72, R73		10k	18	
R10, R38, R70, R74		33k	4	
R13, R31, R71		47k	3	
R11, R12, R17, R30, R39, R51, R62, R63, R64, R67, R69		100k	11	
R36		470k	1	
R14, R16, R52		1M	3	
R20		2M2	1	
R56		4M7	1	
R28	Multi turn SMD trimmer Bourns 3214 or 3224W series or Vishay TSM4YJ or TSM4YL series	50k	1	Or similar 5 turn or 10 turn SMD trimmer.
R50	Trimmer resistor SMD e.g. Bourns 3314J	5k	1	Multi turn trimmer recommended for easy tuning
R41, R53, R68	Trimmer resistor SMD e.g. Bourns 3314J	50k	3	Multi turn trimmer recommended for easy tuning
C23, C42	Ceramic 1206 NP0	47p	2	
C2	Ceramic 1206 NP0	100p	1	
C4, C21	Ceramic 1206 NP0	150P	2	
C18, C45	Ceramic 1206 NP0	330p	2	
C1, C5	Ceramic 1206 NP0	470p	2	
C3	Ceramic 1206 NP0	820p	1	
C17, C26, C38, C39, C51, C53	Ceramic 1206	1n	6	
C12, C13, C16, C44	Ceramic 1206	4n7	4	
C6, C20, C59, C61	Ceramic 1206	10n	4	
C15, C41, C43, C52	Ceramic 1206	47n	4	
C7, C9, C10, C11, C19, C22, C24, C25, C29, C31, C34, C35, C36, C37, C46, C49, C50, C54, C55, C56, C57, C58, C60, C64, C65, C66, C67, C69, C70	Ceramic 1206	100n	29	
C47, C48	Ceramic 1206/10V or more	10u	2	
C8, C14, C28, C32, C33, C40, C62, C63, C68	Tantalum Capacitor SMD	4u7/16V Case style B	9	Value range 4u7-10u. Can be replaced with a radial Tantalum.
C27, C30	Tantalum Capacitor SMD	47u/16V Case style D	2	Can be replaced with a radial Tantalum.
L1, L2	Inductor SMD Case size 1210 or 1812	1uH	2	
T1	RF transformer	TDK signal filter ZJYS51R5-2PB or ZJYS51R5-2PB-01	1	Farnell code 423-0413 or Farnell code 962-1270
D1, D2, D3, D4, D5, D6	Diode dual	BAV99 SOT-23	6	or similar SOT-23 Si-diode
TR3, TR9	NPN transistor	BC848B SOT-23	2	or BC846B, BC847B
TR10	NPN RF transistor	BFR93A SOT-23	1	or similar, ft > 1GHz
TR1, TR2, TR6	Transistor P-JFET	SST177 SOT-23	3	
TR4, TR5, TR7, TR8	MOSFET N-type	2N7002 SOT-23	4	or similar, Rds < 10 ohm
IC1	Analog Muxer	HEF74HC4052 SO-16	1	Only Philips
IC2	Hex Schmitt trigger inverter	40106B SO-14	1	
A1	Dual low noise OPAMP	LT1113 SO-8	1	or LT1169 mfg Linear
A2, A4, A5	Dual JFET OPAMP	TL082 SO-8	3	
A3	Speaker amplifier	LM386 SO-8	1	
REG1	Voltage regulator	LP2951 SO-8	1	
PCB	PCB	JUMA-TRX1-main PCB	1	