


JUMA-TRX1 PA board components Rev. B 12.05.2006

Part number	Description	Value / type	pcs	Note
R3	Resistor SMD size 1206	4R7	1	
R5, R6		24R	2	
R1		51R	1	
R15, R17, R21		100R	3	
R11, R12, R20		2k2	3	
R13, R16, R18, R19, R22		10k	5	
R14		200k	1	
R8, R9, R10	Resistor Mini Melf	150R	3	
R2, R4, R7	Multi turn SMD trimmer Bourns 3214 or 3224W series or Vishay TSM4YJ or TSM4YL series	10k	3	Or similar 5 turn or 10 turn SMD trimmer. Values of 10k, 20k or 50k can be used
C19	Cer 0805 NP0 / 50 V or more	2p2	1	
C17	Cer 1206 NP0 / 50 V or more	100p	1	
C14, C15, C16, C18	Cer 1206 NP0 / 50 V or more	560p	4	
C10, C11, C12, C13	Cer 1206 NP0 / 50 V or more	820p	4	
C3, C20, C26, C29	Cer 1206 / 50 V or more	4n7	4	
C1, C2, C4, C5, C6, C7, C8, C9, C21, C22, C25, C27, C28	Cer 1206 / 50 V or more	100n	13	
C23	Cer 1206 / 16 V or more	470n	1	
C24	Tantalum Capacitor SMD	4u7/16V Case style B	1	Value range 4u7-10u. Can be replaced with a radial Tantalum.
L1, L2	Inductor SMD Case size 2220	2u2H	2	Manufacturer e.g. Epcos SIMID 2220 series. High current type SIMID 2220H series can also be used
L3, L4	Inductor SMD Case size 2220	1uH	2	Manufacturer e.g. Epcos SIMID 2220 series. High current type SIMID 2220H series can also be used
RFC	RF choke, inductance range 0.5uH...10uH (wire through a ferrite bead)	Small ferrite bead e.g. Amidon FB-43-101 outer diameter 3.5 mm, inner diameter 1.3 mm, length 3.5 mm	1	
T1	RF transformer	TDK signal filter ZJYS51R5-2PB or ZJYS51R5-2PB-01	1	Farnell code 423-0413 or Farnell code 962-1270
T2		TDK signal filter TDK ZJYS51R5-M4PA or TDK ZJYS51R5-M4PA-01	1	Farnell code 423-0474 or Farnell code 962-1334
D1, D2, D3, D4, D5	Diode dual SMD SOT-23	BAV99	5	or similar SOT-23 Si-diode
TR1, TR2, TR3	MOSFET N-type D-PAK	IRFR110	3	IRFU110 (I-PAK) can be used by shortening and bending the legs
TR5	MOSFET P-type	BSS84 SOT-23	1	or similar, Rds < 10 ohm
TR4, TR6, TR7	MOSFET N-type	2N7002 SOT-23	3	or similar, Rds < 10 ohm
Z1	Voltage Reference 2.5V	LM4040-2.5 SOT-23	1	or LM385M3-2.5 SOT-23
RL1, RL2	SMD Relay	NEC EB2-12V	2	Or Omron G6H-2F-12V or Nais TQ2SA-12V or Takamisawa AS12W-K
F1	Mini Fuse: Round D=8.5 mm, or rectangle 4 mm x 8.5 mm, lead spacing 5.08 mm	T1A	1	Fuse soldered to the pads. IC type socket header can be used
PCB	PCB	JUMA-TRX1-PA PCB	1	