

JUMA-RX1 DDS board 16.10.2005

Part number	Description	Value / type	pcs	Note
R11	Resistor SMD size 1206	0R	1	Or jumper wire
R12, R16, R18		200R	3	
R23		910R	1	
R13, R14, R15, R21		1k	4	R21 10k for Dual VFO mod
R2		1k8	1	LCD contrast adjust
R4, R5, R7, R9		2k2	4	
R3, R6, R8, R10, R20, R22		10k	6	
R1, R17		15k	2	
C2, C3, C16	Cer capacitor SMD size 1206	22p	3	C2, C3 see schematics for tuning instructions
C15		33p	1	
C17, C19		100p	2	
C18		180p	1	
C13		1n	1	
C7, C14		10n	2	
C1, C4, C5, C6, C8, C11, C12		100n	7	
C9, C21, C22	Tantalum Capacitor SMD	4u7/16V Case style B	3	Value range 4u7-10u. Can be replaced by radial Tantalum.
C10		47u/16V Case style D	1	or elko 47u or 100u
C20	Trimmer Capacitor SMD	20 pF e.g. Murata TZC3P200A110B00	1	Can be replaced by small radial trimmer
L1, L2	Inductor SMD Case size 1206, 1210 or 1812	4u7H	2	
X1	XTAL HC49	20MHz	1	or SMD case HC49/4HSMX
IC1	DDS	AD9833BRM or AD9833BRMZ	1	Case marking DJB or D68
IC2	Microcontroller 18 pin DIP	PIC16F819-I/P	1	or PIC16F88-I/P see software versions
IC3	Voltage regulator SMD	LM78L05ACM SO-8	1	
LCD1	LCD Display 1*16 character	TM161ABA6	1	or similar 8+8 char, one row
	IC socket	18-pin DIL 0,3" spring type	1	Bent and cut the legs
-	PCB	JUMA-RX1-dds PCB	1	