

Component Manifest for 23cm Transceiver
v4.1.3

Component	Designator	Quantity	Case Type	Note	Supplied	28/07/2025
MAR-8ASM+	IC 1,13	2	VV105	SMD		Case Marking 8A
IAM-81008	IC 2	1	SO-8	SMD		
YSGM111308	IC 7	1		SMD		
ADF4153	IC 8	1	TSSOP 16	SMD		
TCXO 13MHz	IC 9	1		SMD		
AH-1G	IC 14	1	SOT-89	SMD		
CLY7	T 6	1	SOT-223	SMD		
BAT63-03W	D 1,2	2	SOD-323	SMD		
80MHz Osc	IC 3	1	DIP -4			
MC3362P	IC 4	1	DIP-24			
LM386-3	IC 5	1	DIP-8			
LM741	IC 6	1	DIP-8			
78L09	IC 10	1	TO-92			
7805	IC 11	1	TO-220			NEEDS A HEATSINK
78L33	IC 15	1	TO-92			
BC547	T 1,4,5,7	4	TO-92			
BC557	T 2	1	TO-92			
BD140	T 3	1	SOT-32			
5V6 1N752	D 3,4 1N4734	2	DO-35			
1N4148	D 6,7,8	3	DO-35			
Atamega328P	IC12	1	DIP-28			Firmware v4.4.4z (LCD 4x20)
100R	R 4,6	2	O805	SMD		
68R	R 5	1	O805	SMD		
10R	R 1	1	O805	SMD		

Component	Designator	Quantity	Case Type		Supplied	
270R	R 2,33	2	0.3	0.6W 1% Metal Film		Use this resistor for MAR-8ASM+
470R	R 3,38	2	0.3	0.6W 1% Metal Film		
47R	R 7,8,32	3	0.3	0.6W 1% Metal Film		
1k0	R 9,10,22,23,27,42	6	0.3	0.6W 1% Metal Film		
33k	R 11,25	2	0.3	0.6W 1% Metal Film		R25 Only if Electret Mic Used
10k	R 12,13	2	0.3	0.6W 1% Metal Film		
10R	R 14	1	0.6	0.6W 1% Metal Film		
12R	R 15	1	0.3	0.6W 1% Metal Film		
150k	R 16,17	2	0.3	0.6W 1% Metal Film		
1k5	R 18,26,44	3	0.3	0.6W 1% Metal Film		
15k	R 19,37,39	3	0.3	0.6W 1% Metal Film		
2M2	R 20	1	0.3	0.6W 1% Metal Film		
100k	R 24	1	0.5	0.6W 1% Metal Film		
4k7	R 28,30,40,41	4	0.3	0.6W 1% Metal Film		
68R	R 34	1	0.3	0.6W 1% Metal Film		
27R	R 35	1	2W	0.6W 1% Metal Film		Gets hot may need higher wattage
560R	R 36	1	0.3	0.6W 1% Metal Film		
390R	R 43 See Notes - change R to set V	1	0.3	0.6W 1% Metal Film		T6 Gate volts -1.5V (typical)
27k	R 45,46,47,48,49,50	6	0.3	0.6W 1% Metal Film		
100k	P1	1	Black	Trimmer H		
50k	P2	1	Blue	Trimmer V		
47p	C1,55,57,62,64	5	0805	SMD		
1n	C2,7,49,54	4	0805	SMD		
1n	C3,36,38,40,44,45,48,53,56,58,61,63,	12	0.1	50V X7R 5mm Monolithic		
0.4-5p	C4,5,6	3	Ceramic	Trimmer H		
10p	C8	1	0.1	NPO		
56p	C9	1	0.1	NPO		
1p	C10	1	0.1	NPO		
15p	C11,12	2	0.1	NPO		

