

MTR-2 Parts list

For 20m&40m

Device	Value	
U1	SA612A	mixer
U2	LM4808M	aud-amp
U3	SA612A	mixer
U4	TC1014-3.3V	3.3reg
U5	LM386M	aud-amp
U6	AD9834BRUZ	dds
U7	MCP1703-5002E	5reg
U8	74AC02M	quad or
U9	SN74LVC1G3157DBV	ang-sw
U10	MSP430F2132IPW	mpu
U11	AVS-40-EJ-T	40M-clok

Q1	MMBF5451	p-jfet
Q2	MMBT3904	nnp
Q3	2N7002	mosfet
Q4	2N7002	mosfet
Q5	NDT2955	p-jfet
Q6	NDT2955	p-jfet
Q7	BS170	mosfet
Q8	BS170	mosfet
Q9	BS170	mosfet

D1	BAV99	
D2	BZT52C5V1-F	5.1v zener
D3	BZT52C5V1-F	5.1v zener
D4	BZX85C47	47v zener

	0.2"7SEG LED	display
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X1	4.9152MHz	filter
X2	4.9153MHz	filter
X3	4.9154MHz	filter
X4	4.9155MHz	filter
X5	4.9156MHz	osc
X6	32.578KHz	mcu klok

TC1	30p	
	30p	BNDA
	30p	BNDA
	30p	BNDB
	30p	BNDB

L1	10uH	
L2	10uH	
L3	3.9uH	
L4	8.2uH	20m
L5	18uH	40m
L6	3.9uH	
L7	18uH	40m
L8	8.2uH	20m
L9	10uH	

Volume	SUM
3.9uH	2
10uH	3
18uH	2
8.2uH	2

L10	T-30-2	20m
L11	T-30-2	20m
L12	T-30-2	40m
L13	T-30-2	40m
L14	FT37-43	

Device	Value	
R1	10k	
R2		470
R3	10k	
R4	47k	
R5	330k	
R6	2.67k	
R7	10k	
R8	267k	
R9	10k	
R10		270
R11	113k	*
R12	330k	
R13	10k	
R14	1M	
R15	3.6k	
R16		270
R17	22k	
R18		270
R19	220k	
R20		51
R21	15k	
R22	10k	
R23	10k	
R24	10k	
R25	100k	
R26	2.2k	
R27	2.2k	
R28	47k	
R29	14.0k	
R30	22k	
R31		470
R32		470
R33		470
R34		470
R35		470
R36		470
R37		470
R38		470
R39	100k	
R40	100k	
R41	22k	
R42	22k	
R43	22k	
R44	47k	
R45	1k	

Volume	SUM
51	1
270	3
470	9
1k	1
2.2k	2
3.6k	1
10k	8
15k	1
22k	5
47k	3
100k	3
220k	1
330k	2
1M	1
2.67k	1
14.0k	1
113k	1
267k	1

Device	Value
C1	4.7u
C2	.01u
C3	33u
C4	100p
C5	100p
C6	100p
C7	470p
C8	100p
C9	100p
C10	.1u
C11	100p
C12	.01u
C13	.1u
C14	.1u
C15	.1u
C16	.01u
C17	.01u
C18	22p
C19	470p
C20	4.7u
C21	100p
C22	47p
C23	.1u
C24	100p
C25	3.3p
C26	3.3p
C27	.1u
C28	.01u
C29	.01u
C30	22p
C31	.001u
C32	47p
C33	.1u
C34	.1u
C35	.01u
C36	1u
C37	4.7u
C38	100p
C39	.1u
C40	.01u
C41	.01u
C42	.1u
C43	.1u
C44	470p
C45	.1u
C46	68p
C47	150p
C48	.001u
C49	1000p
C50	.1u
C51	150p
C52	330p
C53	.1u
C54	.01u
C55	.01u
C56	68p
C57	150p
C58	.022u
C59	100u
C60	
C61	.01u
C62	.01u
C63	.01u
C64	.01u
C65	33p
C66	68p
C67	.1u
C68	22p
C69	.01u
C70	.01u
C71	68p
C72	150p
C73	68p
C74	150p
C75	150p
C76	330p

Volume	SUM
30p	0
3.3p	2
22p	3
33p	1
47p	2
68p	5
100p	9
150p	6
330p	2
470p	3
1000p	1
.01u	17
.022u	1
.1u	15
1u	1
4.7u	3
33u	1
100u	1