

# M2T Parts list

## PLL/MODULATION BLOCK(RF PCB)

## CONTROL

Parts#	Parts Name	Parts#
IC101	MB1511	C301
IC102	MAX2472EUT+	C302
IC103	TK11150CSCL-G	C303
		C304
		C305
Q101	2SA1774	C306
Q102	2SC4226R24	C307
Q103	EMD30	C309
		C310
		C311
X101	Crystal 15MHz HC49S	C312
		C314
		C315
TC101	Trimmer capacitor 10pF	C316
		C317
		C318
VR101	Trimmer potentiometer 10k ohm	C319
		C320
CN101	Connector 15FMN-SMT-A-TF	C321
VCO101	VCO	C323
		C324
		C325
L101	Inductor 47uH	C326
L102	Inductor 22nH	C327
L103	Inductor 33nH	C328
L104	none	C329
L105	Inductor 10uH	C330
L106	Inductor 18nH	C331
L107	Inductor 18nH	C332
L108	Inductor 1uH	C333
		C334
		C335
C101	Ceramic capacitor 15pF	C336
C102	Ceramic capacitor 22pF	C337
C103	Ceramic capacitor 10nF	C338

C104	Tantalum capacitor 10uF10V	C339
C105	Ceramic capacitor 22nF	C340
C106	Ceramic capacitor 10nF	C341
C108	Tantalum capacitor 4.7uF10V	C343
C109	Ceramic capacitor 22nF	C344
C110	Ceramic capacitor 22nF	C345
C111	Tantalum capacitor 4.7uF10V	C346
C112	Ceramic capacitor 100pF	C347
C113	Ceramic capacitor 220pF	C348
C114	Chip capacitor 10nF	C349
C115	Tantalum capacitor 10uF10V	C352
C116	Ceramic capacitor 10nF	C353
C117	Ceramic capacitor 0.5pF	C356
C118	Ceramic capacitor 100pF	C357
C119	Ceramic capacitor 1nF	D301
C120	none	D302
C121	Ceramic capacitor 10nF	D303
C122	Ceramic capacitor 1nF	D305
C123	Ceramic capacitor 1nF	D306
C124	Ceramic capacitor 100pF	D307
C125	Ceramic capacitor 1pF	D310
C126	none	D311
C127	none	D312
C128	Ceramic capacitor 1nF	D313
C129	none	IC301
C130	Ceramic capacitor 10pF	IC302
C131	Ceramic capacitor 3pF	IC303
C132	Ceramic capacitor 7pF	IC306
C133	Ceramic capacitor 3pF	J301
C134	Tantalum capacitor 10uF10V	J302
C135	Ceramic capacitor 10nF	JK301
C136	Ceramic capacitor 10nF	L301
C137	Tantalum capacitor 10uF10V	L302
C139	Ceramic capacitor 10nF	L303
C140	Ceramic capacitor 10nF	L304
C141	Tantalum capacitor 10uF16V	L305
C142	Ceramic capacitor 10nF	L306
C143	Ceramic capacitor 10nF	LED301
C144	Ceramic capacitor 1nF	LED302
C145	Ceramic capacitor 100pF	LED303

C148	Ceramic capacitor 100pF	LED304
C150	Ceramic capacitor 10nF	LED305
		LED306
		LED307
R101	Resistor 22k ohm	PO301
R102	Resistor 100k ohm	Q301
R103	Resistor 33k ohm	Q302
R104	Resistor 10k ohm	R301
R105	Resistor 47 ohm	R302
R106	Resistor 4.7k ohm	R303
R107	Resistor 2.2k ohm	R304
R108	Resistor 4.7k ohm	R305
R109	Resistor 4.7k ohm	R306
R110	Resistor 470k ohm	R307
R111	Resistor 470k ohm	R309
R112	Resistor 470k ohm	R310
R113	Resistor 10k ohm	R311
R114	Resistor 100 ohm	R312
R116	Resistor 100 ohm	R313
R117	Resistor 10k ohm	R314
R118	Resistor 8.2k ohm	R315
R119	none	R316
R120	Resistor 56 ohm	R317
R121	none	R318
R122	Resistor 100 ohm	R319
R124	Resistor 330 ohm	R320
R125	Resistor 18 ohm	R321
R126	Resistor 330 ohm	R322
R127	Resistor 10k ohm	R323
R130	Resistor 2.2k ohm	R325
R131	Resistor 2.2k ohm	R327
R132	Resistor 2.2k ohm	R328
R133	Resistor 2.2k ohm	R329
R134	Resistor 1k ohm	R330
R135	Resistor 2.2k ohm	R331
		R332
		R333
		R344
		R346
		R347

RF/LPF BLOCK(RF PCB)

Parts#	Parts Name
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IC202	GALI-84+	R348
IC203	NJM2125	R349
		S301
		S302
Q201	2SC3356R24	S303
Q202	DTC114YE	S304
Q203	MCH3145TL	X301
Q204	DTC114YE	
Q205	DTC114YE	
Q206	DTC123JE	
D201	RB886CS	
D202	1SS400	
CN201	Connector MM3325-2700	
VR201	Trimmer potentiometer 10K ohm	
VR202	Trimmer potentiometer 10K ohm	
L201	Inductor 22nH	
L206	Inductor 100nH	
L207	Inductor 100nH	
L211	Inductor 8.2nH	
L212	Inductor 22nH	
L213	Inductor 22nH	
L214	Inductor 12nH	
L215	Inductor 1uH	
C201	Ceramic capacitor 10pF	
C202	none	
C203	Ceramic capacitor 100nF	
C204	Ceramic capacitor 1nF	
C205	Ceramic capacitor 100nF	
C206	Ceramic capacitor 10nF	
C207	Ceramic capacitor 4pF	
C208	Ceramic capacitor 100pF	
C211	Ceramic capacitor 100nF	
C214	none	

C215	Tantalum capacitor 10uF16V
C216	Ceramic capacitor 1nF
C217	Ceramic capacitor 1nF
C218	Ceramic capacitor 10nF
C219	Ceramic capacitor 1nF
C220	none
C221	Ceramic capacitor 1pF
C222	Ceramic capacitor 100pF
C223	none
C224	none
C225	none
C226	none
C227	Ceramic capacitor 6pF
C228	Ceramic capacitor 6pF
C229	Ceramic capacitor 6pF
C230	none
C232	Tantalum capacitor 10uF16V
C233	Ceramic capacitor 220nF
C234	Ceramic capacitor 10nF
C236	Ceramic capacitor 10nF
C238	Ceramic capacitor 100nF
C239	Ceramic capacitor 10nF
C240	Tantalum capacitor 10uF16V
C241	Ceramic capacitor 10nF
C242	Ceramic capacitor 10nF
C243	Tantalum capacitor 1uF16V
C244	Ceramic capacitor 10nF
C245	Ceramic capacitor 10nF
C246	Ceramic capacitor 10nF
C247	Ceramic capacitor 10nF
C248	Ceramic capacitor 10nF
C249	Ceramic capacitor 100pF
C250	Ceramic capacitor 10nF
C251	Ceramic capacitor 10nF
R201	Resistor 1k ohm
R203	Resistor 10k ohm
R204	none
R205	Resistor 100 ohm

R206	Resistor 10 ohm
R207	none
R208	Resistor 330 ohm
R209	Resistor 18 ohm
R210	Resistor 330 ohm
R211	none
R212	none
R213	Resistor 39 ohm
R214	Resistor 3.3 ohm
R215	Resistor 1k ohm
R216	none
R218	Resistor 1k ohm
R219	none
R220	Resistor 10k ohm
R221	Resistor 47k ohm
R222	Resistor 1k ohm
R223	Resistor 100 ohm
R224	Resistor 68k ohm
R225	Resistor 1k ohm
R226	Resistor 1k ohm
R227	Resistor 10k ohm
R228	Resistor 2.2k ohm
R229	Resistor 2.2k ohm
R230	Resistor 2.2k ohm
R231	Resistor 2.2k ohm
R232	Resistor 2.2k ohm
R233	Resistor 2.2k ohm
R234	Resistor 1k ohm
R235	Resistor 47k ohm
R236	Resistor 1k ohm
R237	Resistor 1k ohm



/POWER BLOCK

AF BLOCK

Parts Name	Parts#
Ceramic capacitor 100pF	C1
Ceramic capacitor 100pF	C10
Ceramic capacitor 100pF	C101
Ceramic capacitor 100pF	C102
Ceramic capacitor 100pF	C103
Ceramic capacitor 100pF	C104
Ceramic capacitor 100pF	C105
Ceramic capacitor 100pF	C106
Ceramic capacitor 100pF	C107
Ceramic capacitor 100pF	C11
Ceramic capacitor 100pF	C110
Ceramic capacitor 100pF	C111
Ceramic capacitor 100pF	C112
Ceramic capacitor 100pF	C113
Ceramic capacitor 100pF	C116
Ceramic capacitor 100pF	C117
Ceramic capacitor 100pF	C118
Ceramic capacitor 100pF	C119
Ceramic capacitor 100pF	C120
Ceramic capacitor 10000pF	C121
Ceramic capacitor 1000pF	C122
Ceramic capacitor 100pF	C123
Electrolytic capacitor 330uF16V	C124
Ceramic capacitor 100000pF	C125
Ceramic capacitor 10000pF	C126
Ceramic capacitor 1000pF	C127
Ceramic capacitor 100pF	C128
Electrolytic capacitor 330uF16V	C129
Ceramic capacitor 10000pF	C130
Ceramic capacitor 1000pF	C131
Ceramic capacitor 100pF	C132
Electrolytic capacitor 100uF16V	C133
Ceramic capacitor 10000pF	C134
Ceramic capacitor 1000pF	C135
Ceramic capacitor 100pF	C136



Ceramic capacitor 100pF	C137
Ceramic capacitor 100pF	C138
Ceramic capacitor 100pF	C140
Ceramic capacitor 100000pF	C141
Ceramic capacitor 22pF	C143
Ceramic capacitor 22pF	C144
Electrolytic capacitor 22uF16V	C145
Ceramic capacitor 100000pF	C146
Electrolytic capacitor 1uF50V	C147
Ceramic capacitor 100pF	C148
Ceramic capacitor 1000pF	C149
Ceramic capacitor 100pF	C150
Ceramic capacitor 100pF	C151
Ceramic capacitor 100pF	C152
SL12	C153
DCB010	C154
DCB010	C155
NNCD6.2C	C156
NNCD6.2C	C157
NNCD6.2C	C158
NNCD6.2C	C159
NNCD6.2C	C160
NNCD6.2C	C162
NNCD6.2C	C163
uPC29M10HF	C165
uPC29M10HF	C166
NJM78L05	C168
uPD78F0521GB	C169
Connector 15FMN-BTK-A	C170
Connector S7B-PH	C171
DCJack HEC0470-01-630	C172
Inductor CKP32161R0M	C175
Inductor CKP32161R0M	C176
Inductor 1uH	C177
Inductor 1uH	C178
Inductor 1uH	C179
Inductor 1uH	C180
LED TLSU124	C182
LED TLYU124	C2
LED TLGU53C	C201

LED TLSU124	C208
LED TLYU124	C209
LED TLGU53C	C210
LED TLSU124	C211
Posistor RLD60P090X	C213
CPH3106	C215
2SC2712Y	C216
Resistor 1k ohm	C218
Resistor 1k ohm	C219
Resistor 1k ohm	C220
Resistor 1k ohm	C221
Resistor 1k ohm	C222
Resistor 1k ohm	C223
Resistor 1k ohm	C224
Resistor 1k ohm	C225
Resistor 1k ohm	C227
Resistor 1k ohm	C228
Resistor 1k ohm	C229
Resistor 1k ohm	C230
Resistor 1k ohm	C231
Resistor 1k ohm	C232
Resistor 1k ohm	C233
Resistor 1k ohm	C234
Resistor 2.2k ohm	C235
Resistor 100k ohm	C236
Resistor 2.2k ohm	C237
Resistor 0 ohm	C238
Resistor 100 ohm	C244
Resistor 100 ohm	C3
Resistor 1k ohm	C4
Resistor 4.7k ohm	C5
Resistor 1k ohm	C6
Resistor 680 ohm	C7
Resistor 4.7k ohm	C8
Resistor 1k ohm	C9
Resistor 680 ohm	D1
Resistor 10k ohm	D101
Resistor 1k ohm	D102
Resistor 100 ohm	D103
Resistor 1k ohm	D104

Resistor 10k ohm	D105
Resistor 47k ohm	D106
Switch SPUN192800	D107
Switch SSSS212	D108
Switch SD-2111	D2
Switch SD-2111	D201
Crystal 4.864MHz	D202
	D203
	D204
	D3
	D4
	IC101
	IC102
	IC103
	IC104
	IC105
	IC201
	IC202
	IC204
	IC206
	IC207
	IC208
	JK101
	JK102
	JK103
	JK104
	L1
	L101
	L102
	L103
	L104
	L105
	L106
	L107
	L108
	L109
	L110
	L111
	L2
	L202

L203
L204
L3
R101
R102
R103
R104
R105
R106
R107
R108
R109
R110
R111
R112
R113
R114
R115
R116
R117
R118
R119
R120
R121
R122
R123
R124
R125
R126
R129
R130
R131
R132
R133
R135
R136
R137
R138
R139
R140

R141
R142
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R161
R169
R170
R171
R172
R173
R174
R201
R202
R203
R204
R205
R207
R208
R209
R210
R212
R213
R214
R215
R217
R218
R219

R220
R221
R222
R223
R224
R225
R226
R227
R228
S101
S102
TN1
VR101
VR102
VR103
VR104
VR203
VR204

Parts Name
Ceramic capacitor 100pF
Ceramic capacitor 10000pF
Ceramic capacitor 10000pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 4.7uF63V
Electrolytic capacitor 4.7uF63V
Ceramic capacitor 10000pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 4.7uF63V
Electrolytic capacitor 4.7uF63V
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 22uF16V
Ceramic capacitor 100000pF
Ceramic capacitor 100000pF
Film capacitor 332
Ceramic capacitor 330pF
Ceramic capacitor 330pF
Ceramic capacitor 330pF
Ceramic capacitor 22pF
Electrolytic capacitor 2.2uF50V
Film capacitor 103
Ceramic capacitor 100pF
Electrolytic capacitor 1uF50V
Film capacitor 223
Ceramic capacitor 22pF
Ceramic capacitor 270pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 0.68uF50V
Electrolytic capacitor 10uF16V
Electrolytic capacitor 10uF16V

Ceramic capacitor 270pF
Film capacitor 223
Electrolytic capacitor 0.68uF50V
Ceramic capacitor 100000pF
Film capacitor 332
Ceramic capacitor 330pF
Ceramic capacitor 330pF
Ceramic capacitor 330pF
Ceramic capacitor 22pF
Electrolytic capacitor 2.2uF50V
Film capacitor 103
Ceramic capacitor 100pF
Electrolytic capacitor 1uF50V
Film capacitor 223
Ceramic capacitor 22pF
Ceramic capacitor 270pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 0.68uF50V
Electrolytic capacitor 10uF16V
Electrolytic capacitor 10uF16V
Ceramic capacitor 270pF
Film capacitor 223
Electrolytic capacitor 0.68uF50V
Ceramic capacitor 100000pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 4.7uF63V
Electrolytic capacitor 4.7uF63V
Electrolytic capacitor 4.7uF63V
Electrolytic capacitor 4.7uF63V
Electrolytic capacitor 22uF16V
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Ceramic capacitor 100000pF
Ceramic capacitor 100pF
Electrolytic capacitor 10uF16V



Ceramic capacitor 100pF
Ceramic capacitor 680pF
Ceramic capacitor 100pF
Ceramic capacitor 22pF
Electrolytic capacitor 10uF16V
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 22uF16V
Electrolytic capacitor 22uF16V
Ceramic capacitor 100000pF
Ceramic capacitor 100000pF
Ceramic capacitor 100000pF
Ceramic capacitor 100000pF
Ceramic capacitor 100000pF
Electrolytic capacitor 10uF16V
Film capacitor 332
Ceramic capacitor 330pF
Electrolytic capacitor 1uF50V
Ceramic capacitor 100000pF
Electrolytic capacitor 10uF16V
Electrolytic capacitor 22uF16V
Electrolytic capacitor 10uF16V
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 10000pF
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA



Inductor 1uH
Inductor 1uH
Inductor 1uH
Resistor 6.8k ohm
Resistor 2.2k ohm
Resistor 1k ohm
Resistor 6.8k ohm
Resistor 2.2k ohm
Resistor 1k ohm
Resistor 6.8k ohm
Resistor 2.2k ohm
Resistor 1k ohm
Resistor 6.8k ohm
Resistor 2.2k ohm
Resistor 1k ohm
Resistor 1k ohm
Resistor 1k ohm
Resistor 33k ohm
Resistor 33k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 47k ohm
Resistor 5.6k ohm
Resistor 100k ohm
Resistor 11k ohm
Resistor 11k ohm
Resistor 10k ohm
Resistor 30k ohm
Resistor 11k ohm
Resistor 30k ohm
Resistor 30k ohm
Resistor 5.6k ohm
Resistor 0 ohm
Resistor 220 ohm
Resistor 1k ohm
Resistor 1k ohm
Resistor 33k ohm
Resistor 33k ohm
Resistor 10k ohm

Resistor 10k ohm
Resistor 10k ohm
Resistor 47k ohm
Resistor 100k ohm
Resistor 11k ohm
Resistor 11k ohm
Resistor 10k ohm
Resistor 5.6k ohm
Resistor 30k ohm
Resistor 11k ohm
Resistor 30k ohm
Resistor 30k ohm
Resistor 2.2k ohm
Resistor 5.6k ohm
Resistor 1.8k ohm
Resistor 2.2k ohm
Resistor 0 ohm
Resistor 1.8k ohm
Resistor 9.1k ohm
Resistor 9.1k ohm
Resistor 9.1k ohm
Resistor 9.1k ohm
Resistor 100k ohm
Resistor 100k ohm
Resistor 10k ohm
Resistor 120k ohm
Resistor 120k ohm
Resistor 120k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 1.8k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 4.7k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 22k ohm

Resistor 22k ohm
Resistor 22k ohm
Resistor 22k ohm
Resistor 1k ohm
Resistor 1k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Switch SSSS928200
Switch SSSS928200
Terminal M1866
Trimmer potentiometer 4.7k ohm
RK09L1120-10K
Trimmer potentiometer 4.7k ohm
RK09L1120-10K
Trimmer potentiometer 22k ohm
Trimmer potentiometer 22k ohm