

M3T 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	C318
		C319
		C320
X101	Crystal 15MHz HC49S	C321
		C322
		C323
TC101	Trimmer capacitor 10pF	C324
		C325
		C326
VR101	Trimmer potentiometer 10k ohm	C327
		C328
CN101	Connector 15FMN-SMT-A-TF	C329
VCO101	VCO	C330
		C331
		C332
L101	Inductor 47uH	C333
L102	Inductor 22nH	C334
L103	Inductor 33nH	C335
L104	none	C336
L105	Inductor 10uH	C337
L106	Inductor 18nH	C338
L107	Inductor 18nH	C339
L108	Inductor 1uH	C340
		C341
		C343
C101	Ceramic capacitor 15pF	C344
C102	Ceramic capacitor 22pF	C345
C103	Ceramic capacitor 10nF	C346

C104	Tantalum capacitor 10uF10V	C347
C105	Ceramic capacitor 22nF	C348
C106	Ceramic capacitor 10nF	C349
C108	Tantalum capacitor 4.7uF10V	C352
C109	Ceramic capacitor 22nF	C353
C110	Ceramic capacitor 22nF	C354
C111	Tantalum capacitor 4.7uF10V	C356
C112	Ceramic capacitor 100pF	D301
C113	Ceramic capacitor 220pF	D302
C114	Chip capacitor 10nF	D303
C115	Tantalum capacitor 10uF10V	D305
C116	Ceramic capacitor 10nF	D306
C117	Ceramic capacitor 0.5pF	D307
C118	Ceramic capacitor 100pF	D311
C119	Ceramic capacitor 1nF	D312
C120	none	D313
C121	Ceramic capacitor 10nF	D314
C122	Ceramic capacitor 1nF	IC301
C123	Ceramic capacitor 1nF	IC302
C124	Ceramic capacitor 100pF	IC303
C125	Ceramic capacitor 1pF	IC306
C126	none	IC307
C127	none	J301
C128	Ceramic capacitor 1nF	J302
C129	none	J303
C130	Ceramic capacitor 10pF	L301
C131	Ceramic capacitor 3pF	L302
C132	Ceramic capacitor 7pF	L303
C133	Ceramic capacitor 3pF	L304
C134	Tantalum capacitor 10uF10V	L305
C135	Ceramic capacitor 10nF	L306
C136	Ceramic capacitor 10nF	PO301
C137	Tantalum capacitor 10uF10V	Q301
C139	Ceramic capacitor 10nF	Q302
C140	Ceramic capacitor 10nF	R301
C141	Tantalum capacitor 10uF16V	R302
C142	Ceramic capacitor 10nF	R303
C143	Ceramic capacitor 10nF	R304
C144	Ceramic capacitor 1nF	R305
C145	Ceramic capacitor 100pF	R306

C148	Ceramic capacitor 100pF	R307
C150	Ceramic capacitor 10nF	R308
		R309
		R310
R101	Resistor 22k ohm	R311
R102	Resistor 100k ohm	R312
R103	Resistor 33k ohm	R313
R104	Resistor 10k ohm	R314
R105	Resistor 47 ohm	R315
R106	Resistor 4.7k ohm	R317
R107	Resistor 2.2k ohm	R318
R108	Resistor 4.7k ohm	R319
R109	Resistor 4.7k ohm	R320
R110	Resistor 470k ohm	R321
R111	Resistor 470k ohm	R322
R112	Resistor 470k ohm	R323
R113	Resistor 10k ohm	R325
R114	Resistor 100 ohm	R327
R116	Resistor 100 ohm	R330
R117	Resistor 10k ohm	R331
R118	Resistor 8.2k ohm	S101
R119	none	S102
R120	Resistor 56 ohm	S301
R121	none	X301
R122	Resistor 100 ohm	
R124	Resistor 330 ohm	
R125	Resistor 18 ohm	
R126	Resistor 330 ohm	
R127	Resistor 10k ohm	
R130	Resistor 2.2k ohm	
R131	Resistor 2.2k ohm	
R132	Resistor 2.2k ohm	
R133	Resistor 2.2k ohm	
R134	Resistor 1k ohm	
R135	Resistor 2.2k ohm	

RF/LPF BLOCK(RF PCB)

Parts#	Parts Name
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IC202	GALI-84+
IC203	NJM2125
Q201	2SC3356R24
Q202	DTC114YE
Q203	MCH3145TL
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	C2
Ceramic capacitor 100pF	C3
Ceramic capacitor 100pF	C4
Ceramic capacitor 100pF	C5
Ceramic capacitor 100pF	C6
Ceramic capacitor 100pF	C7
Ceramic capacitor 100pF	C8
Ceramic capacitor 100pF	C9
Ceramic capacitor 100pF	C10
Ceramic capacitor 100pF	C11
Electrolytic capacitor 1000uF25V	C101
Ceramic capacitor 10000pF	C102
Ceramic capacitor 1000pF	C103
Ceramic capacitor 100pF	C104
Electrolytic capacitor 330uF16V	C105
Ceramic capacitor 100000pF	C106
Ceramic capacitor 10000pF	C107
Ceramic capacitor 1000pF	C108
Ceramic capacitor 100pF	C110
Electrolytic capacitor 330uF16V	C111
Ceramic capacitor 10000pF	C112
Ceramic capacitor 1000pF	C113
Ceramic capacitor 100pF	C114
Electrolytic capacitor 100uF16V	C115
Ceramic capacitor 10000pF	C116
Ceramic capacitor 1000pF	C117
Ceramic capacitor 100pF	C118
Ceramic capacitor 100pF	C119
Ceramic capacitor 100pF	C120
Ceramic capacitor 100pF	C121
Ceramic capacitor 100000pF	C122
Ceramic capacitor 22pF	C123
Ceramic capacitor 22pF	C126
Electrolytic capacitor 22uF16V	C127

Ceramic capacitor 100000pF	C128
Electrolytic capacitor 1uF50V	C129
Ceramic capacitor 100000pF	C130
Ceramic capacitor 1000pF	C131
Ceramic capacitor 100pF	C132
Ceramic capacitor 100pF	C133
Ceramic capacitor 100pF	C134
SL12	C135
DCB010	C136
DCB010	C137
NNCD6.2C	C138
NNCD6.2C	C140
NNCD6.2C	C141
NNCD6.2C	C142
NNCD6.2C	C143
NNCD6.2C	C144
NNCD6.2C	C145
uPC29M10HF	C146
uPC29M10HF	C147
NJM78L05	C148
uPD78F0522GB	C149
93C46B	C150
Connector 15FMN-BTK-A	C151
Connector S7B-PH	C152
Connector 15FMN-BTK-A	C153
Inductor CKP32161R0M	C154
Inductor CKP32161R0M	C155
Inductor 1uH	C156
Inductor 1uH	C157
Inductor 1uH	C158
Inductor 1uH	C159
Posistor RLD60P090X	C160
CPH3106	C162
2SC2712Y	C163
Resistor 1k ohm	C164
Resistor 1k ohm	C165
Resistor 1k ohm	C166
Resistor 1k ohm	C167
Resistor 1k ohm	C168
Resistor 1k ohm	C169

Resistor 1k ohm	C170
Resistor 1k ohm	C172
Resistor 1k ohm	C175
Resistor 1k ohm	C178
Resistor 1k ohm	C180
Resistor 1k ohm	C181
Resistor 1k ohm	C201
Resistor 1k ohm	C207
Resistor 1k ohm	C208
Resistor 1k ohm	C209
Resistor 2.2k ohm	C210
Resistor 100k ohm	C211
Resistor 2.2k ohm	C213
Resistor 0 ohm	C214
Resistor 100 ohm	C215
Resistor 100 ohm	C216
Resistor 1k ohm	C218
Resistor 10k ohm	C219
Resistor 100 ohm	C220
Resistor 10k ohm	C221
SSSS928200	C222
SSSS928200	C223
SPUN192800	C224
Crystal 4.864M	C225
	C226
	C227
	C228
	C229
	C230
	C231
	C232
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	C234
	C235
	C236
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	C238
	C239
	C240
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D101
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D107
D108
D201
D202
D203
D204
D205
D206
IC101
IC102
IC103

IC104
IC105
IC201
IC202
IC204
IC206
IC207
IC208
IC209
IC210
JK101
JK102
JK103
JK104
JK201
JK301
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L247
R101

R102
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R226
R227
R228
R229
R230
R231
R232
R233
R234
R235
R236
R237
R238
R239
R240
R241
R242
R243
R244
R245
R246
TN201
VR101
VR103
VR202
VR203
VR204
VR205

5

Parts Name
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 10000pF
Ceramic capacitor 10000pF
Ceramic capacitor 10000pF
Ceramic capacitor 10000pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 47uF63V
Electrolytic capacitor 47uF63V
Ceramic capacitor 22pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 47uF63V
Electrolytic capacitor 47uF63V
Ceramic capacitor 330pF
Ceramic capacitor 330pF
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 22uF16V
Ceramic capacitor 100000pF
Ceramic capacitor 100000pF
Film capacitor 332
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
none
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
Ceramic capacitor 100000pF
Electrolytic capacitor 22uF16V
Electrolytic capacitor 47uF63V
Electrolytic capacitor 47uF63V
Electrolytic capacitor 47uF63V
Electrolytic capacitor 47uF63V

Electrolytic capacitor 22uF16V
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Electrolytic capacitor 10uF16V
Electrolytic capacitor 10uF16V
Ceramic capacitor 100pF
Ceramic capacitor 680pF
Ceramic capacitor 100pF
Ceramic capacitor 22pF
Electrolytic capacitor 10uF16V
none
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
Ceramic capacitor 100000pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Ceramic capacitor 22pF
Ceramic capacitor 22pF
Electrolytic capacitor 10uF16V
Electrolytic capacitor 10uF16V
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 10uF16V
Electrolytic capacitor 10uF16V

Ceramic capacitor 100pF
Ceramic capacitor 100pF
Electrolytic capacitor 330uF16V
Ceramic capacitor 100000pF
Electrolytic capacitor 330uF16V
Electrolytic capacitor 330uF16V
none
none
Ceramic capacitor 100pF
Ceramic capacitor 100pF
Ceramic capacitor 100000pF
Electrolytic capacitor 10uF16V
Electrolytic capacitor 1uF50V
Film capacitor 332
Ceramic capacitor 330pF
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 2.2uF50V
Electrolytic capacitor 22uF16V
Electrolytic capacitor 10uF16V
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
SMAJ100CA
RD7.5M
NNCD5.6LG
NNCD5.6LG
DCB010
DCC010
DCC010
RD5.1MB1
RD5.1MB1
SL12
NNCD5.6LG
NJM3403
SA575
NJM3403

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 10k ohm
Resistor 10k 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 30k ohm
Resistor 10k 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 10k ohm
Resistor 10k 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 2.2k ohm
Resistor 5.6k ohm
Resistor 0 ohm
Resistor 2.2k ohm
Resistor 6.8k ohm
Resistor 2.2k ohm
Resistor 1k ohm
Resistor 6.8k ohm
Resistor 2.2k ohm
Resistor 1k ohm
Resistor 1.8k ohm
Resistor 1.8k ohm
Resistor 9.1k ohm
Resistor 9.1k ohm
Resistor 9.1k ohm
Resistor 9.1k 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 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
Resistor 1k ohm
Resistor 1k ohm
Resistor 1k ohm
Resistor 1k ohm
Resistor 22 ohm
Resistor 22 ohm
Resistor 0 ohm
Resistor 0 ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 10k ohm
Resistor 120k ohm
Resistor 120k ohm
Resistor 120k ohm
Resistor 120k ohm
Resistor 120k ohm
Resistor 120k ohm
Terminal M1866
Trimmer potentiometer 4.7K
Trimmer potentiometer 4.7K
none
Trimmer potentiometer 22K
Trimmer potentiometer 22K
RK09L12