

Alim 48v-56

Parts list

Location	Reference
CONN1, CONN4	MKDS 1,5/2-5,08
C9, C10, C11, C12	C0805F103K1RACTU
C5, C6, C7, C8	EEETG1J101UP+
C1, C2, C3, C4	MR-VJ1206Y104KX
C13, C14	EEU-FC2A221
C15, C16, C17, C18	PHE850EA4470MA03R17
CTH1	Rs Pro 307-935
CON1, CON2, CON3	62000211622
CONN2	9051486951
CONN3	Molex Male connector 24 Way 2 Row PCB Housing
D1, D2, D3, D4	LED 2mm GN
L1, L2, L3, L4, L5, L6	150nH 40A SERDI 1221
PFUS1	0031.8231
R6, R7	1.8K 1206
R1, R5	18K 1206
R2	R510 1206
RV2	Cermet Trimmer 100K BOURNS
RV1	Cermet Trimmer 20K BOURNS
D5	VS-30CPF12PBF
A3	XL160
A4	XL275-48

CPUBDT2_C

Parts list

Component location	Reference
D5,D6,D10	1N5615
T2,T3	2N2222
T1	2N2907
IC11,IC17,IC21	74HC00D
IC22,IC23	74HC02D
IC24	74HC11D
IC100,U1, IC7	74HC14D
IC8,IC10	74HC245D
IC2,IC4,IC6,IC9	74HC573D
IC18,IC20	ADM3077E
D8,D9,D17	BAS16
D11,D12,D13,D14,D15,D16,D18,D19,D20	BAS16VY
BZ1	KSTG931AP
C3,C8,C12,C14,C15,C16,C17,C18,C20,C21,C22,C23,C24,C25,C26,C41,C42,C43,C61,C62,C63,C64,C71,C72,C73,C88,C89,C90,C91	100nF-0805-50V
C9	100pF 0805 50V 20%
C29,C81,C82,C83,C84,C98,C99,C100,C101,C102,C103	10nF 0805 50V
C33,C34,C35,C36,C37,C38,C39,C40,C92,C93,C94,C95,C96,C97	1nF 0805 50V
C28	220nF 0805 50V
C13,C74,C75,C76,C77,C78	220pF 0805 50V
C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57	22nF 0805 50V
C79	470pF 0805 50V
C80	NC 0805 50V
C6,C10,C30,C65	100µF tantalum 2917 16V 20%
C2	1µF tantalum 1206 16V 20%
C85,C86,C87	10µF tantalum 1210 16V 20%
C11	1µF tantalum 1210 16V 20%
C1,C4,C5,C7,C19,C31,C32,C58,C59,C60,C66,C67,C68,C69,C70	10µF tantalum 1210 16V 20%
C27	330µF tantalum 2917 10V 10%
CON2	1655910131
CON3	62000211622
CON3	620002113322
CON1	64900411122
CON1	649004013322
J1	09031966921
IC5	XCF02S
FUS1,FUS2,FUS3	SMF 5A
INT1	TP33W0080
L2,L9	822LY101K+
L1	LQH55DN100M03L
L3,L5,L10	LQH32MN100J23L
L4	ELJNA1R0JF
IC15	LD1086-D2T25
D2	LED 2mm GN
D1,D3,D4,D7,L6,L7,L8	LED 2mm YW
IC14	LM317BD2T
IC16	ICL232
IC19	MC78M05 369A
IC12	MC79M05 369A
GPS1	CLP10402LDTR
J5	M20-6112045
IC30	PIC16F870
TS2,TS3,TS4,TS5	Test plot
TS1,TS7	Test plot
P1	Test plug
TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP10	Test plot
R20,R31	10R 0805 0.25W 5%
R4,R5,R18,R63,R64,R65,R66,R67,R68,R69,R70,R101,R106	100R 0805 0.25W 5%
R105	100R 0805 0.25W 1%
R8,R21,R22,R30	100K 0805 0.25W 5%
R6,R7,R32,R37,R72,R73,R74,R75,R76,R86,R87,R88,R132,R133,R134,R135,R136,R137,R138,R139,R140,R141	10K 0805 0.25W 5%
R44,R46	150K 0805 0.25W 5%
R99,R102,R107	180R 0805 0.25W 5%
R1,R2,R9,R12,R13,R14,R15,R19,R23,R26,R27,R28,R33,R40,R41,R42,R77,R78,R79,R80,R81,R82,R83,R84,R90,R91,R92,R93,R94,R95,R96,R97,R100,R103,R104,R108,R109,R110,R111,R112,R113,R114,R115,R116,R117,R118,R126,R127,R128,R129,R130,R131	1K 0805 0.25W 5%
R98	2.2K 0805 0.25W 5%
R10	270R 0805 0.25W 5%
R11	390R 0805 0.25W 1%
R25,R55,R56,R57,R58,R59,R60,R61,R62,R71	5.1K 0805 0.25W 5%
R36	51R 0805 0.25W 5%
R43	510R 0805 0.25W 5%

R47	510K 0805 0.25W 5%
R45	51K 0805 0.25W 5%
R121,R122,R123,R124,R125	NC 0805 0.25W 5%
RJ1	1840855-3
R16,R17,R34,R35,R38,R39,R85,R89	CAT16 x4 10k
R48	CAT16 x4 1k
R24,R49,R50,R51,R52,R53,R54	CAT16 x4 22k
RV2	Trimmer cermet 10k 3266W
IC25	SN74LVC1T45DBVR
J7,J8,J11,J13,J15,J18,J19,J23,J24	Jumper
J2,J3,J4,J6,J10,J16,J17,J20,J21	Jumper
J22	Solder jumper
J9,J12,J14	Solder jumper
S1	1061 + CR2032
IC1,IC13	ULN2803AFWG
VCXO3	VV-701-DAW-2EAE
VCXO2	VTA7-A11B
VCXO1	VVA1-A3E
TCXO2	VT-803-DAW-107A
IC3	XC2S200PQ208

DCTR_G 460-470 MHz

Parts list

Component location	Reference
D5,D6	1N4148
T7,T8,T9,T10,T12,T2,T3,T4,T5,T6	2N2222A
T1	2N2907-SMC
IC25,U2	74HC00D
U1	74HC14
IC13	74HC245D5V
IC12,IC17	74HC541D
IC1,IC4,IC5,IC6,IC7,IC11	74LVC4245A
IC2	AD7863-3
IC19	ADE-1
IC24	ADF4110BRUZ
IC28	ADP3338AKCZ-3.3RL7
IC10	AM29LV0408
D1,D2,D3	BAV99
TR4,TR5	BCX52
C100	47µF 6.3V SMD
C8,C13,C44,C46	100µF 16V 10%
C166,C196	330µF tantalum 10V 20% SMC
C211,C222,C232,C233,C234	1nF 0402
C98	GRM155R61A105KE15D
C229	1nF 0402
C190,C191	10nF 0402
C134,C163,C164,C205,C213,C220	100nF 0402
C170,C171,C172,C225,C226,C248,C249,C259,C274	100pF 0402
C207	270pF 0402
C94,C127	470pF 0402
C215	10µF tantalum 16V 20% SMC
C5,C182	1nF 0805
C153,C155,C162,C165	1pF 50V 20% 0805
C169,C185,C194,C204	1µF ceramic 16v 10% 0805
C243	4.7nF 0805
C160	4.7pF 50V 20% 0805
C167	6pF 100V 20% 0805
C161	8.2pF 50V 20% 0805
C195,C197,C198,C202,C238	10nF 0805
C7,C39,C83,C84	10pF 100V 20% 0805
C235	12pF 100V 20% 0805
C237	15pF 100V 0805
C97,C102,C103,C125,C128,C142,C143,C146,C188,C200,C253,C254,C255	22nF 35V 20% 0805
C72,C275	22pF 0805
C109,C110,C114,C115	27pF 35V 20% 0805
C41,C101,C105,C129,C203	47pF 0805
C156,C158,C184	82pF 50V 20% 0805
C1,C6,C9,C10,C11,C12,C14,C15,C16,C17,C18,C19,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,C35,C36,C37,C42,C43,C45,C47,C48,C49,C50,C51,C52,C53,C54,C59,C60,C61,C62,C65,C66,C69,C70,C71,C74,C75,C76,C77,C78,C79,C80,C81,C82,C88,C89,C104,C118,C119,C120,C121,C126,C132,C140,C141,C147,C148,C151,C152,C173,C209,C210,C212,C214,C216,C227,C230,C252,C262,C266,C267,C270,C271,C277	100nF 0805
C55,C56,C130,C131,C145,C154,C174,C176,C177,C178,C180,C181,C199,C201,C223,C236,C239,C240,C241,C242,C244,C264,C268,C269,C272,C273	100pF 100V 20% 0805
C107,C108,C112,C113,C136,C138,C183	120pF 0805
C137,C139	220pF 0805
C106,C111,C116,C117	270pF 35V 20% 0805
C40	330nF 0805 RS 723-5203
C95,C96	330pF 35V 20% 0805
C38	NC 50V 20% 0805
C219	4.7µF 16V 20% 0805
C208,C246	10nF 35V 20% 1206
C224,C231,C247,C250,C256,C257,C258,C260,C261,C263,C276	10µF tantalum 16V 20% 1206

C57,C99,C135,C228	10µF tantalum 35V 20% 1210
C2,C3,C4,C20,C21,C22,C73,C86,C87,C122,C123,C124,C133,C149,C150,C175,C179,C187,C189,C192,C193,C245,C251	10µF tantalum 16V 20% SMD
CHF12	56pF 500V SQCB AVX
CHF9,CHF10,CHF11	120pF 500V SQCB AVX
CHF1	150pF 500V SQCB AVX
CHF6,CHF7,CHF8	470pF 500V SQCB AVX
CHF15	CC1206JRNPO9BN821
CHF13,CHF14	1nF 500V SQCB AVX
CHF4	NC 500V SQCB AVX
U3	CD74AC14M96-5VL
CL4,CL5	Shield
CL1,CL2,CL3	Shield
CX2	Coaxial local aera
CX41,CX42	Coaxial local aera 4mm
J1	1655910131
CV2,CV8,CV9,CV11	1.5-3pF trimmer capacitor
CV1,CV3,CV4,CV5,CV6	2-6pF trimmer capacitor
CV12	0.5-1PF trimmer capacitor MURATA
CV7,CV10	1.5-3pF trimmer capacitor
IC18,IC20,IC23,IC34	ERA4
IC26	ERA5
F5	crystal filter QF 23.1 VECTRON
F1	EMI filter NFM41P 5%
F3,F4	SMF 5A
F2	SMF 3A
IC22	GVA84
IC21	ICS542MILF
Y1	Crystal Oscillator 40 Mhz IOXO 57
IC31	JMS-2LH
L1,L2,L3	LQM21PN1R0MC0D
L47,L50,L51	180nH 0805
L12	NPI16W681MTRF
L20	LQM21PN1R0MC0D
L18	7447600339A
L32	10nH 0.25W 10% 0805 COILCRAFT
L24,L25,L39,L42,L43,L45,L46,L48,L49,L52	10µH 0.25W 10% 0805
L31	15nH 0.25W 10% 0805 COILCRAFT
L34	145nH 0.25W 5%
L23,L27,L33	220nH 0.25W 5%
L28	270nH 0.25W 5% 0805 COILCRAFT
L16,L26	330nH 0.25W 5%
L13	1µH 0.25W 5%
L14,L15,L17,L19,L21,L22,L29,L30,L35,L36,L37,L38,L40,L41,L44	10µH 0.25W 5%
IC14	LD1086-D2T25
IC15	LD1086-D2T33
D8,D9,D10,D11,D12,D13,L4	LED 2mm GN
IC16	LM317BD2T
IC33	LTC6945
IC3,IC30,IC32,IC39	MC78M05
IC37,IC40	MC33275ST-5
IC27,IC38	OP467 SMD
BL2,BL3,BL4	Frame shielding 75x50 PERANCEA
TP6,TP10	Test plot
Y2,Y3	5RDA24000123TF50Q3
R127	3.9K 0402 0.25W 5%
R120	5.1K 0402 0.25W 5%
R126	6.8K 0402 0.25W 5%
R23,R49,R121,R123,R134,R139	10K 0402 0.25W 5%
R140,R144,R145,R148	15R 0402
R69,R117,R130,R141	51.1R 0402
R114,R115,R118,R146	100R 0402
R116	200K 0402
R95,R155	0R 0805
R7,R8,R44,R45,R62,R64,R65,R111,R122,R124,R135	1K 0805 0.25W 5%

R166,R167	2.2K 0805 0.25W 5%
R50,R55,R105	3.9K 0805 0.25W 5%
R108,R109,R136	4.7K 0805 0.25W 5%
R102,R133,R152,R160,R255	5.1K 0805 0.25W 5%
R9,R26,R85	6.8K 0805 0.25W 5%
R61,R80,R81,R82	10R 0805 0.25W 5%
R2,R3,R6,R11,R17,R28,R42,R48,R66,R67,R68,R83,R84, R86,R161	10K 0805 0.25W 5%
R88,R129	12R 0805 0.25W 5%
R35,R46,R47,R60	15K 0805 0.25W 5%
R38,R79	18R 0805 0.25W 5%
R75	22R 0805 0.25W 5%
R59,R137	22K 0805 0.25W 5%
R113	27R 0805 0.25W 5%
R56,R57,R58,R103,R106,R107	47R 0805 0.25W 5%
R18,R19	47K 0805 0.25W 5%
R1,R37,R91	51R 0805 0.25W 5%
R12,R14,R39,R72,R110,R119,R138,R150,R151,R153,R1 54	100R 0805 0.25W 5%
R16	100K 0805 0.25W 5%
R36	270R 0805 0.25W 5%
R29,R32,R33,R63,R92,R94	330R 0805 0.25W 5%
R15,R70,R71,R76,R78,R89,R90,R131,R132,R158	470R 0805 0.125W 5%
R73,R97,R98,R99,R101,R104	510R 0805 0.25W 5%
R162,R163,R164,R165	820R 0805 0.25W 5%
R96,R100	ADJ 0805 0.25W 5%
R147,R156,R157	NC
R31	0R 0805
R74,R77	27R 1206 0.25W 5%
R34,R40,R41,R43,R87,R93,R112,R125,R128,R143,R254	51R 1206 0.25W 5%
RC1,RC2,RC3,RC4,RC5,RC6,RC7	SR9000SPQ0488BYE
R51	CAT16 x4 1k
R4,R5,R10,R13,R20,R21,R22,R24,R25,R27,R30,R52,R5 3,R54,R142,R149	CAT16 x4 10k
RV7	Trimmer 10K
RV2	Trimmer 50K
RV3,RV4,RV5,RV6	Trimmer 100R
D4,D7	S3A
L9	145µH VAR NEOSIDE
L8	170µH VAR NEOSIDE
L11	560µH VAR NEOSIDE
L5	670µH VAR NEOSIDE
L7	820µH VAR NEOSIDE
L10	47µH VAR NEOSIDE
L6	56µH VAR NEOSIDE
D14	SMP1330-005LF
IC29	SPF5043Z
J14,J15,J16,J17	Jumper
J2,J3,J4	Solder jumper
J5,J6,J7,J8,J9,J10,J11,J12,J21	Solder jumper
IC9	TMS320C6414
VCXO1	VV-701-DAE-SKAE-24M0000000
IC8	XC2S150-PQ208

PA2-25W_F 460-470 MHz

Parts list

Location	Reference
D7	BAS16LT1G
T1,T2,T4,T5	2N2222A
T3	2N2907
IC8	74HC00D
IC5	74HC04D
IC2	AH312
D3,D12,D13	DKB370-FDITR-ND
D1,D2	BAT54
J2,J5	1715721
D4,D14,D15,D16	BYG21K
CHF3,CHF5,CHF7,CHF11,CHF12,CHF13,CHF20	10PF HF
CHF1,CHF4,CHF6,CHF10,CHF14,CHF18	120PF HF
CHF8	8,2pF HF
CHF2,CHF38,CHF39	12PF HF
C14,CHF17	18PF HF
C64,CHF19	27PF HF
CHF24,CHF32	4.7PF HF
CHF16,CHF28	6.8PF HF
CHF25	8.2PF HF
CHF23	NC 0805 CMS
C18	1.5nF 0805 - 50v
C9,C11,C13,C21,C23,C24,C27,C53,C62,C78	100nF 0805 - 50v
C6,C42,C43,C44,C46,C74	100nF/100v 0805
C7,C16,C22,C28,C29,C57,C60,C79	100pF/100v 0805
C3,C12,C32,C41,C54,C55,C67,C70,C71,C72,C80,C81	10nF 0805 - 50v
C35,C36,C39	10nF/100v 0805
C2	10pF 0805 - 50v
C4,C19,C31,C73	1nF 0805 - 50v
C20	1pF 0805 - 50v
C59	2.7nF 0805 - 50v
C10	220pF 0805 - 50v
C45,C48,C51	220pF 100V 0805
C15,C58	22nF 0805 - 50v
C8,C40	22nF100v 0805
C63	22pF 0805 - 50v
C56	330pF 0805 - 50v
C25,C65	EEEB1E101AP
C5,C26,C30,C38,C47	EEETG1J101UP+
C37,C66	MCCA000626
C69,C75,C76,C82	10uF/16v CMS 1210 Tantalum
C77	1uF/16v CMS 1210 Tantalum
C33,C34,C49,C50,C52,C68	12061C105KAT2A
C17,C61	293D225X9050D2TE3
C1	RPS1C221MCN1GS
CTH1	RSpro 307935
CIR1	ADC049GD
CV1	4-20pF Adj
FUS1	FUS CMS 10A
HE1	HE10_16 Cts male
D10,D11	HSMS-2822-TR1G
L10	self 1sp fil 50/100 D=3mm
L23	self 2sp 50/100 D=3.2mm
L5,L6,L7	self 2sp 80/100 D=3.2mm
L26	self 4sp 80/100 D=3.2mm
L28	self 2sp fil 80/100 D=3.2
L13,L20,L21,L25	self 5sp fil 80/100 D=3.2
L9	36501J15NJT DG
L14	36501J18NJT DG
L3,L4,L11,L16	LQW2BHN22NJ03L
L29	10uH CMS SELF
L12,L17	ELJNA47NMF
L2,L18	36502C82NJT DG
L15	ELLCTV270M
L1,L8,L22,L24	IHL P2525AHER4R7M01

D6,D9	LL1N4148
CTH2	LM26CIM5-NPA
IC3	LM393D
IC7	LM5576MH
IC1,IC6	LP2951
D8	MMSZ5260BT1
TR1	MRF6V2010NBR1
IC4	MRF6V4300NR5
TR4,TR7	NDT2955
PFL1,PFL2	shielding 50X25
PFL3	shielding 75X50
R49	R TO126
R16	10 0805 CMS
R50	100 0805 CMS
R15,R20,R23,R30,R31,R53,R60	10K 0805 CMS
R5	12 0805 CMS
R9,R14	150 0805 CMS
R2,R3	180 0805 CMS
R32	19.6K 0.1% 0805 CMS
R17,R24,R34,R41,R42,R51	1K 0805 CMS
R18	1M 0805 CMS
R19,R33	2.2K 0805 CMS
R48	2.7K 0805 CMS
R38	20.5K 0805 CMS
R6,R43	22 0805 CMS
R25	220K 0805 CMS
R7,R26,R35,R46	22K 0805 CMS
R40	3.09K 0805 CMS
R47,R54	3.3K 0805 CMS
R1,R12	33 0805 CMS
R4	39 0805 CMS
R22	330 0805 CMS
R13,R44	470 0805 CMS
R21,R28,R29,R36,R52	5.1K 0805 CMS
R55,R56	NC
R11,R61	TE 35211K3FT
R57	18 ohms 1206 CMS
R27	120 ohms 1206 CMS
R45	2.2K 1206 CMS
R37,R58,R59	330 1206 CMS
R39	ERJT06J512V
R10	3520680RJT
RV3,RV4	BRN3314G-1-103E
RV2	BRN3314G-1-202E
RV1,RV5,RV6	PVG5A202C03R00
L19,L27	742792151
D5	STPS10L60CF
J1,J3,J6,J7	STRAP A SOUDER
Z2,Z3	ZENER 12V CMS
Z1	ZENER 6.2V CMS

UCM3_C 460-470 MHz

Parts list

Component location	Reference
IC1	M27C4002
IC6	M27C1001
T2,T3,T4,T5,T6,T7,T8,T9,T10,T11	2N2222
T1	2N2907
IC3	74HC00D
IC15	MC74HC04
IC5-IC18	MC74HC14D
IC20,IC22	74HC245
IC12	74HC32D TEXAS
IC39	MC74HC4078D
IC21,IC49	MC74HC573D
IC4	80C251SB
IC2	AD768
IC81	AD7776AR
IC26	ADE-1
IC24	ADF4110BRUZ
IC28	ADP3338-3.3V
D2	BAS16 or 1N4148
D7,D8,D9,D10	BB833
TR4,TR5	BCX52
CHF1,CHF2,CHF3,CHF4	220pF 500V
CHF5,CHF6,CHF7,CHF8	ADJ
C66,C71,C80,C152,C180,C204	100nF 0402
C158,C159,C248,C249,C257,C260	100pF 0402
C142,C143	10nF 0402
C111,C154	1nF 0402
C155	GRM155R61A105KE15D
C192,C193	270pF 0402
C201	3.9nF 100V 20% 0402
C62,C63	470pF 0402
C112,C220	10µF tantalum 10V 20% 0603 AVX
C2,C9,C14,C42,C48,C49,C50,C51,C61,C65,C85,C86,C88,C99,C100,C103,C128,C140,C141,C145,C151,C164,C170,C175,C182,C188,C190,C191,C195,C196,C197,C198,C202,C213,C217,C233,C234,C236,C237,C238,C239,C240,C241,C268,C269	100nF 0805
C22,C47,C54,C59,C60,C97,C98,C108,C109,C110,C119,C136,C137,C146,C161,C162,C168,C169,C171,C177,C184,C185,C186,C205,C206,C207,C208,C209,C214,C221,C222,C223,C225,C230,C231,C232,C235,C245,C250	100pF 50V 20% 0805
C8,C12,C13,C130,C135,C147,C148,C165,C247,C264	10nF 0805
C173,C176,C183	120pF 0805
C53	12pF 50V 20% 0805
C56,C74	15pF 50V 20% 0805
C75,C76,C121,C126,C131,C132,C133,C270	1nF 50V 20% 0805
C96,C107,C144,C167	C0805C105K4RAC
C77	2.2nF 0805 NPO
C3,C174,C194	220pF 50V 20% 0805
C1,C16,C17,C18,C19,C20,C21,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,C45,C81,C82,C89,C90,C92,C93,C94,C95,C104,C105,C106,C113,C114,C115,C116,C117,C118,C120,C127,C129,C160,C163,C181,C224	22nF 0805
C122,C123,C124,C125,C172,C179,C226,C227,C228,C229,C243,C244	22pF 0805
C139	330nF 0805
C78,C79	330pF 0805
C10	33nF 50V 20% 0805

C70,C134,C178,C246	33pF 0805
C149	4.7nF 0805
C4	470pF 50V 20% 0805
C11,C52,C166,C187,C189	47pF 0805
C72	56pF 50V 20% 0805
C73	68pF 50V 20% 080
C67,C68	82pF 50V 20% 0805
C41,C43,C266,C267	ADJ 0805
C57,C58,C242	NC 50V 20% 0805
C15	TPSD107K016R0150
C262	100nF 50V 20% 1206
C261	100pF 50V 20% 1206
C5,C6,C7,C36,C39,C55,C101,C102,C138,C153,C156,C157,C199,C200,C203,C219,C251,C252,C253,C254,C255,C256,C258,C259,C263,C44-C46-C69-C84-C210-C211-C212-C215-C216	10µF tantalum 16V 20% 1206
C35,C37,C38,C40	1µF tantalum 35V 20% 1206
C218	4.7µF tantalum 35V 20% 1206
C150	1µF tantalum 35V 20% 1210
C64	1µF ceramic capacitor X7R 100V 20% 1210
C83,C87,C265	300uF tantalum 10V SMD Case Size E AVX
C91	10µF tantalum 6.3V 1210
CL1,CL2,CL3,CL4,CL5,CL6	Shield 50X50
CLD1	Shield 24mm
CL7	Shield PERANCEA
CX4	Coaxial local aera
J8	09031966921
CV5,CV8,CV14,CV15	4-20pF trimmer capacitor
CV9,CV10,CV11	9401-0SL1
CV1,CV2,CV3,CV4	9401-0SL1
CV6,CV7	0.5-1pF trimmer capacitor MURATA
CV16	2-6pF trimmer capacitor AVX
IC7	CY62256
IC16,IC31,IC32,IC33	ERA4
TR2	ECT1-1-13
F2	QF23.3-12500/06
F1	EMI filter NFM41P 5%
FSAW1	B39471B5052Z810
IC11	XCF02S
FUS1	SMF 5A
IC34	ICS542MILF
IC41	IDT7204
INT1	Pushbutton TP33W0080 SCEME
SPLI1	JYPQ-30
L34	Inductor 1sp wire 50/100 D=3mm
L31,L32	Inductor 3sp wire 10/10 D=3mm
L33	Inductor 4sp wire 50/100 D=3mm
L8	Inductor 50nH 4sp wire 50/100 D=3.2mm
L47,L50,L51	180nH 0805 TE 36502AR18JTDG
L2,L5,L13,L18,L24,L26,L27,L28,L36,L41,L45,L46,L48,L49,L52,L53	LQM21FN100N00L
L20	WE 7447905
L17	LQW2BHNR22J03L
L14	LQW2BASR27J00L
L19	LQW2BHNR33J03L
L22	LQH32MN4R7K23L
L21,L44	LQW2BHNR22J03L
L40	ADJ
L1	LQH55DN681M03L

L3,L4,L9,L10,L15,L23,L29,L30,L35,L37,L38,L39,L43	LQH32MN100J23L
L16,L42	ELJNA1R0JF
L25	LQH32MN2R223L
L54	LQH55DN681M03L
IC19	LD1086D2T25TR
D1-D11	LED 2mm GN
D12	LED 2mm BL
D3-4-16-17	LED 2mm YW
D13-14-15	LED 2mm RD
IC14	LM317BD2T
IC23	LTC6945
IC25	MAV11
IC9	MAX232DW
IC36	MC33275ST-5
IC30,IC35	MC78M05
IC27	MC78M08
TR1	MCT3-1
IC38	NJM78L05UA-TE1
IC17,IC37	NJM79L05UA-TE1
IC133	OP284 SOIC
BL2	Frame shielding 50x25 PERANCEA
BL1,BL3,BL4,BL5	Frame shielding 75x50 PERANCEA
TS4,TS5,TS6	Test plot
TS1,TS2,TS3	Test plot
Y1,Y2	5RDA24000123TF50Q3
R17,R81,R85,R103	100R 0402
R24	15R 0402
R104	200k 0402
R39	3.9k 0402 0.25W 5%
R18	5.1k 0402 0.25W 5%
R6,R44,R105	51.1R 0402
R38	6.8k 0402 0.25W 5%
R59,R91,R94,R101	0R 0805
R37,R71,R100,R114,R123,R127,R130,R131,R132, R133,R134,R135,R136,R141,R160,R161,R162	100R 0805 0.25W 5%
R51,R52,R53,R63	100R 0805 0.25W 5%
R19,R23,R29,R32,R46,R47,R49,R56,R57,R70,R72, R73,R102,R119	10k 0805 0.25W 5%
R40,R149	12R 0805 0.25W 5%
R82,R83,R84	15R 0805 0.25W 5%
R48,R148	18R 0805 0.25W 5%
R42,R64	150R 0805 0.25W 5%
R93	187k 0805 0.25W 1%
R8,R11,R12,R13,R20,R21,R33,R41,R76,R99,R108, R113,R126,R139,R144,R154,R155,R156,R157	150R 0805 0.25W 5%
R90,R106	2.2k 0805 0.25W 5%
R9	220k 0805 0.25W 5%
R26,R27,R109	22k 0805 0.25W 5%
R22,R80	27R 0805 0.25W 5%
R158	39R 0805 0.25W 5%
R15,R98,R122	51R 0805 0.25W 5%
R43,R45	68R 0805 0.25W 5%
R10	220R 0805 0.25W 5%
R30,R65	270R 0805 0.25W 5%
R28,R146,R147	330R 0805 0.25W 5%
R92	374k 0805 0.25W 1%
R31	390R 0805 0.25W 5%

R25,R66,R67,R74,R75,R78,R79,R86,R87,R137,R138	4.7k 0805 0.25W 5%
R54,R55,R112,R124,R150,R151	470k 0805 0.25W 5%
R153	47k 0805 0.25W 1%
R77,R118,R140	5.1k 0805 0.25W 5%
R1	510R 0805 0.25W 5%
R2,R3	51k 0805 0.25W 5%
R34,R36	680R 0805 0.25W 5%
R4	680k 0805 0.25W 5%
R88,R89,R107,R117	820R 0805 0.25W 5%
R129	93.1k 0805 0.25W 1%
R96,R152	ADJ
R7,R14,R60,R61,R95,R110,R111,R159	NC 0805 0.25W 5%
R50,R58,R62,R68,R69,R97,R115,R116,R120,R121,R125,R128	51R 1206 0.25W 5%
IC13,IC29,IC115,IC122	SR9000SPQ0565BYE
RR4,RR5	Resistor Networks 8x 10k
RR1,RR2,RR3	Resistor Networks 8x 22k
R5,R16,R35,R214,R215	CAT16 x4 10k
RV4	BRN3314G-1-103E
RV5	BRN3314G-1-201
D5	S3A
L6,L7	100µH VAR NEOSIDE
IC10	SPF-5043Z
IC55	STQ-1016Z
J4,J11,J13,J16,J17,J18,J22	Jumper
J14,J15	Solder jumper
J1,J2,J3,J5,J6,J7,J10,J19,J20	Solder jumper
VCO2	CVCO55CC-0440-505
VCXO1	VCXO SMD 24MHz VECTRON
VCO1	VCO093MHZ
IC8	XC2S200-5PQG208C FPGA
D6	MMSZ5228B-VG08