

Exhibit 10: Parts List

External Radio Frequency Power Amplifier ACOM 700S

Model 700S

ACOM 700S PARTS LIST

AMP UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
A1	Jack Straight				SMB	Тор
А3	Jack Straight				SMB	Тор
AT1	High Power Attenuator	10dB	100W	Flange Mount	FA10975	Тор
C1	High Q Cap.	180pF	500V	NP0/C0G	1111	Тор
C2	Capacitor	100nF	100V	X7R	1206	Тор
C3	Capacitor	100nF	100V	X7R	1206	Тор
C4	Capacitor	10nF	100V	X7R	1206	Тор
C5	Capacitor	10nF	100V	X7R	1206	Тор
C6	Capacitor	22nF	250V	X7R	1206	Тор
C7	Capacitor	22nF	250V	X7R	1206	Тор
C8	Capacitor	1nF	200V	X7R	1206	Тор
C9	Capacitor	100nF	100V	X7R	1206	Тор
C10	Capacitor	100nF	100V	X7R	1206	Тор
C11	High Q Cap.	100pF	500V	NP0/C0G	1111	Тор
C12	High Q Cap.	180pF	500V	NP0/C0G	1111	Тор
C13	High Q Cap.	100pF	500V	NP0/C0G	1111	Тор
C14	Capacitor	1nF	50V	X7R	1206	Тор
C60	Capacitor	10nF	200V	X7R	1206	Тор
C61	Capacitor	1nF	50V	X7R	1206	Тор
C62	Capacitor	1nF	50V	X7R	1206	Тор
C63	Capacitor	2.2nF	250V	X7R	1206	Тор
C64	Capacitor	2.2nF	250V	X7R	1206	Тор
D1	Diode	FDLL4448	100V	200mA	SOD-80	Тор
D2	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D6	Diode	FDLL4448	100V	200mA	SOD-80	Тор
D7	Transient Voltage Suppressor	SMBJ30CA	600W		DO-214AA	Тор
D10	Diode				SOD-80	Тор
D11	Diode				SOD-80	Тор
D12	Diode				SOD-80	Тор
D13	Diode				SOD-80	Тор
D14	Diode				SOD-80	Тор
D15	Diode				SOD-80	Тор
D16	Diode				SOD-80	Тор
D17	Diode	_			SOD-80	Тор
D18	Diode				SOD-80	Тор
D19	Diode				SOD-80	Тор
D20	Diode				SOD-80	Тор
D21	Diode				SOD-80	Тор

D22					DO-214AB	Тор
D23					DO-214AB	Тор
D26	Diode				SOD-80	Тор
D27	Diode				SOD-80	Тор
D28	Diode				SOD-80	Тор
D29	Diode				SOD-80	Тор
D30	Diode				SOD-80	Тор
D31	Diode				SOD-80	Тор
D32	Diode				SOD-80	Тор
D33	Diode				SOD-80	Тор
D34	Diode				SOD-80	Тор
D35	Diode				SOD-80	Тор
D36	Diode				SOD-80	Тор
D37	Diode				SOD-80	Тор
D38					DO-214AB	Тор
D39					DO-214AB	Тор
J1	Connector, 3-Pin				MTA100 3p	Тор
J2	FFC Connector , 6-Pin				1mm pich	Тор
J7	Standoff				M2/0.4 H6mm	Тор
J8	Standoff				M2/0.4 H6mm	Тор
J12	Standoff				M2/0.4 H6mm	Тор
J13	Standoff				M2/0.4 H6mm	Тор
K1	Relay	G6K-2F 24DC	24V		G6K-2F	Тор
K2	Relay	G6K-2F 24DC	24V		G6K-2F	Тор
L1	Inductor	22uH		100mA	1210	Тор
L2	Inductor	22uH		100mA	1210	Тор
Q1	RF Mosfet LDMOS Transistor	BLF188XRU	135V		SOT539A	Тор
Q2	MOSFET N-CH	NDT3055L	60V		SOT-223-4	Тор
R1	Metal Film Resistor	27	3W		AXIAL-Ø5.5 x 16mm	Тор
R2	Metal Film Resistor	27	3W		AXIAL-Ø5.5 x 16mm	Тор
R3	Resistor	1k	1/4W		1206	Тор
R4	Resistor	1k	1/4W		1206	Тор
R5	Resistor	1M	1/4W		1206	Тор
R6	Metal Film Resistor	5.6	3W		AXIAL-Ø5.5 x 16mm	Тор
R7	Metal Film Resistor	5.6	3W		AXIAL-Ø5.5 x 16mm	Тор
R8	Metal Film Resistor	4.7	3W		AXIAL-Ø5.5 x 16mm	Тор
R9	Metal Film Resistor	4.7	3W		AXIAL-Ø5.5 x 16mm	Тор
R10	Metal Film Resistor	240	1W		AXIAL-Ø2.5 x 6.5mm	Тор
R11	Metal Film Resistor	160	1W		AXIAL-Ø2.5 x 6.5mm	Тор
R12	Resistor	10	2W		2512	Тор
R13	Resistor	1k	1/4W		1206	Тор
R14	Resistor	10k	1/4W		1206	Тор
R15	Resistor	1k	1/4W		1206	Тор

R16	Resistor	1k	1/4W		1206	Тор
R17	Resistor	1M	1/4W		1206	Тор
R32	High Power Resistor	50	250W	Flange Mount	FR10975	Тор
R33	Resistor	1M	1/4W		R1206	Тор
R34	Resistor	4.7k	1/4W		R1206	Тор
R35	Resistor	22k	1/4W		R1206	Тор
R45	Resistor	300	30W		TO-220-2	Тор
R50	Resistor	300	30W		TO-220-2	Тор
T1	Input Transformer	1:4				Тор

AMP UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
A2	Jack Straight				SMA	Тор
C1	Capacitor	100nF	50V	X7R	0805	Тор
C2	Capacitor	100nF	100V	X7R	0805	Тор
C3	Capacitor	100nF	100V	X7R	0805	Тор
C4	Tantalum Capacitor	1uF	35V		CASE B	Тор
C5	Capacitor	1nF	50V	X7R	0805	Тор
C6	Capacitor	2.2uF	16V	X7R	0805	Тор
C7	Capacitor	100nF	50V	X7R	0805	Тор
C8	Capacitor	100nF	50V	X7R	0805	Тор
C9	Capacitor	1nF	250V	X7R	0805	Тор
C10	Capacitor	1nF	50V	X7R	0805	Тор
C11	Capacitor	2.2uF	16V	X7R	0805	Тор
C12	Capacitor	100nF	50V	X7R	0805	Тор
C13	Capacitor	100nF	50V	X7R	0805	Тор
C14	Capacitor	1nF	100V	X7R	0805	Тор
C15	Capacitor	1nF	50V	X7R	0805	Тор
C16		NC		X7R	0805	Тор
C17	Capacitor	2.2uF	16V	X7R	0805	Тор
C18	Capacitor	100nF	50V	X7R	0805	Тор
C19	Capacitor	100nF	100V	X7R	0805	Тор
C20	Capacitor	1nF	250V	X7R	0805	Тор
C21	Capacitor	1nF	250V	X7R	0805	Тор
C22	Capacitor	1nF	250V	X7R	0805	Тор
C23	Capacitor	100nF	50V	X7R	0805	Тор
C24	Capacitor	2.2uF	16V	X7R	0805	Тор
C25	Capacitor	1nF	50V	X7R	0805	Тор
C26		NC			1206	Тор
C27		NC			1206	Тор
C28	Capacitor	1nF	250V	X7R	0805	Тор
C29		NC			1206	Тор
C30	Capacitor	10nF	630V	NP0	1206	Тор
C31	Capacitor	10nF	250V	X7R	0805	Тор

C32	Capacitor	10nF	630V	NP0	1206	Тор
C33	Capacitor	10nF	630V	NP0	1206	Тор
C34	Capacitor	10nF	630V	NP0	1206	Тор
C35	Capacitor	10nF	630V	NP0	1206	Тор
C36	Capacitor	10nF	630V	NP0	1206	Тор
C37	Capacitor	10nF	630V	NP0	1206	Тор
C38	Capacitor	10nF	630V	NP0	1206	Тор
C39	Capacitor	10nF	630V	NP0	1206	Тор
C40	Capacitor	1nF	100V	X7R	0805	Тор
C41	Capacitor	1nF	100V	X7R	0805	Тор
C42	Capacitor	10nF	100V	X7R	0805	Тор
C43	Capacitor	10nF	100V	X7R	0805	Тор
C44	Capacitor	10nF	100V	X7R	0805	Тор
C45	Capacitor	10nF	100V	X7R	0805	Тор
C46	Capacitor	10nF	630V	NP0	1206	Тор
C47	Capacitor	10nF	100V	X7R	0805	Тор
C48		NC			1206	Тор
C49	Capacitor	10nF	100V	X7R	0805	Тор
C50		NC			1206	Тор
C51		NC			1206	Тор
C52	Capacitor	100nF	50V	X7R	0805	Тор
C53	Capacitor	10nF	100V	X7R	0805	Тор
C54	Capacitor	10nF	100V	X7R	0805	Тор
C55	Capacitor	10nF	100V	X7R	0805	Тор
C56	Capacitor	1nF	200V	X7R	0805	Тор
C57	Capacitor	22nF	50V	X7R	0805	Тор
C58	Capacitor	100pF	50V	X7R	0805	Тор
C59	Capacitor	100nF	100V	X7R	1206	Тор
C60	Capacitor	100nF	100V	X7R	1206	Тор
C61	Capacitor	10uF	100V	X7R	2220	Тор
C62	Electrol. Capacitor	100uF	63V		10mm x 20mm	Тор
C63	Capacitor	1nF	100V	X7R	0805	Тор
C64	Capacitor	10nF	100V	X7R	0805	Тор
C65	Capacitor	100nF	100V	X7R	0805	Тор
C66	Capacitor	100nF	100V	X7R	0805	Тор
C67	Capacitor	1nF	100V	X7R	0805	Тор
C68	Capacitor	100nF	100V	X7R	0805	Тор
C69	Capacitor	100nF	100V	X7R	0805	Тор
C70	Capacitor	100nF	250V	X7R	0805	Тор
C71	Capacitor	1uF	100V	X7R	1206	Тор
C72	Capacitor	1uF	100V	X7R	1206	Тор
C73	Capacitor	100nF	250V	X7R	1206	Тор
C74	Capacitor	100nF	250V	X7R	1206	Тор
C75	Capacitor	100nF	250V	X7R	1206	Тор
C76	Capacitor	100nF	100V	X7R	0805	Тор

C77	Capacitor	10nF	100V	X7R	0805	Тор
C78	Capacitor	22nF	50V	X7R	0805	Тор
C79	Capacitor	10nF	100V	X7R	0805	Тор
C80	Capacitor	100pF	50V	X7R	0805	Тор
C81	Capacitor	100nF	100V	X7R	0805	Тор
C90	Capacitor	1nF	100V	X7R	0805	Тор
C91	Capacitor	1nF	50V	X7R	0805	Тор
C92	Capacitor	100nF	100V	X7R	0805	Тор
C93	Capacitor	100nF	100V	X7R	0805	Тор
C94	Tantalum Capacitor	1uF	35V		CASE B	Тор
C95	Capacitor	22nF	100V	X7R	0805	Тор
C96	Capacitor	22nF	100V	X7R	0805	Тор
C97	Capacitor	10nF	100V	X7R	0805	Тор
C98	Electrol. Capacitor	100uF	35V		8mm x 11.5mm	Тор
D1	LED	GREEN	2.6V	20mA	LED0805	Тор
D2	LED	RED	2.6V	20mA	LED0805	Тор
D3	LED	YELLOW	2.6V	20mA	LED0805	Тор
D4	LED	BLUE	2.6V	20mA	LED0805	Тор
D5	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D6	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D7	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D8	Schottky Diode	BAS70-04	70V		SOT-23	Тор
J1	Connector, 4-Pin				MTA100 4p	Тор
J2	FFC Connector , 6-Pin				1mm pich	Тор
J5	Terminal				HOLE Ø2.5mm	Тор
J6	Terminal				HOLE Ø2.5mm	Тор
J8	Header, 12-Pin				MTA100 12p	Тор
J14	Terminal				HOLE Ø2.5mm	Тор
J15	Terminal				HOLE Ø2.5mm	Тор
J16	Standoff				M2/0.4 H6mm	Тор
J18	Terminal				K14	Тор
J19	Connector, 2-Pin				MTA100 2p	Тор
J20	Terminal				K14	Тор
J21		NC			MTA100 2p	Тор
JP1	Resistor	0	1/8W		0805	Тор
L1	Inductor	22uH			1210	Тор
L2	Inductor	2.2uH			1210	Тор
L3		CHOKE			DRAIN COIL 700	Тор
L4	Inductor	22uH			1210	Тор
L5	Inductor	22uH			1210	Тор
L6	Inductor	22uH			1210	Тор
L7	Inductor	22uH			1210	Тор
L8	Inductor	22uH			1210	Тор
L9	Inductor	22uH			1210	Тор
L10	Inductor	22uH			1210	Тор

L11	Inductor	22uH		1210	Тор
L12	Inductor	22uH		1210	Тор
L13	Inductor	2.2uH		1210	Тор
L14	Power Choke	0.1uH			Тор
L15		NC		1210	Тор
L16	Inductor	22uH		1210	Тор
L17	Inductor	22uH		1210	Тор
L18	Inductor	2.2uH		1210	Тор
Q1	N-Channel MOSFET	2N7002	60V	SOT-23	Тор
Q2	N-Channel MOSFET	2N7002	60V	SOT-23	Тор
Q3	PNP Transistor	BC857C	45V	SOT-23	Тор
Q5	NPN Transistor	BC817-40	45V	SOT-23	Тор
Q6	N-Channel MOSFET	2N7002	60V	SOT-23	Тор
Q7	N-Channel MOSFET	2N7002	60V	SOT-23	Тор
Q10	NPN Bipolar Transistor	BC817-40	45V	SOT-23	Тор
Q11	NPN Bipolar Transistor	BCX56-16	80V	SOT-89	Тор
R1	Resistor	470	1/8W	0805	Тор
R2	Resistor	10k	1/8W	0805	Тор
R3	Resistor	221k	1/8W	0805	Тор
R4	Resistor	100	1/8W	0805	Тор
R5	Resistor	511k	1/8W	0805	Тор
R6	Resistor	1M	1/8W	0805	Тор
R7	Resistor	470	1/8W	0805	Тор
R8	Resistor	2.2k	1/8W	0805	Тор
R9	Resistor	221k	1/8W	0805	Тор
R10	Resistor	10	1/8W	0805	Тор
R11	Resistor	10	1/8W	0805	Тор
R12	Resistor	2.2k	1/8W	0805	Тор
R13	Resistor	10	1/8W	0805	Тор
R14	Resistor	22k	1/8W	0805	Тор
R15	Resistor	22k	1/8W	0805	Тор
R16	Resistor	53.6k	1/8W	0805	Тор
R17	Resistor	470	1/8W	0805	Тор
R18	Resistor	2.2k	1/8W	0805	Тор
R19	Resistor	221k	1/8W	0805	Тор
R20	Resistor	10	1/8W	0805	Тор
R21	Resistor	22k	1/8W	0805	Тор
R22	Resistor	39k	1/8W	0805	Тор
R23	Resistor	0	1/8W	0805	Тор
R24	Resistor	10k	1/8W	0805	Тор
R25	Resistor	6.8k	1/8W	0805	Тор
R26	Resistor	470	1/8W	0805	Тор
R27	Resistor	2.2k	1/8W	0805	Тор
R28	Resistor	221k	1/8W	0805	Тор
R29	Resistor	1M	1/8W	0805	Тор

R30	Resistor	10k	1/8W		0805	Тор
R31	Resistor	53.6k	1/8W		0805	Тор
R32	Resistor	22k	1/8W		0805	Тор
R33	Resistor	10k	1/8W		0805	Тор
R34	Resistor	10k	1/8W		0805	Тор
R35	Resistor	10k	1/8W		0805	Тор
R36	Resistor	47	1/8W		0805	Тор
R37	Resistor	510	1/8W		0805	Тор
R38	Resistor	510	1/8W		0805	Тор
R39	Metal Film Resistor	18k	3W		AXIAL-Ø5.5 x 16mm	Тор
R40	Resistor	47	1/8W		0805	Тор
R41	Resistor	10	1/8W		0805	Тор
R42	Resistor	2.7k	1/8W		0805	Тор
R43	Resistor	26.1k	1/8W	1%	0805	Тор
R44	Resistor	10k	1/8W	1%	0805	Тор
R45	Resistor	10k	1/8W		0805	Тор
R46	Resistor	47	1/8W		0805	Тор
R47	Resistor	10k	1/8W	1%	0805	Тор
R48	Resistor	10k	1/8W	1%	0805	Тор
R50	Metal Film Resistor	10k	1W		AXIAL-Ø2.5 x 6.5mm	Тор
R51	Resistor	10k	1/8W	1%	0805	Тор
R52	Resistor	1k	1/8W		0805	Тор
R53	Resistor	10	1/8W		0805	Тор
R54	Resistor	5k-15k	1/8W		0805	Тор
R55	Metal Film Resistor	33	3W		AXIAL-Ø5.5 x 16mm	Тор
R56	Resistor	10k	1/8W		0805	Тор
R57	Resistor	10k	1/8W	1%	0805	Тор
R58	Resistor	5.1k	1/8W		0805	Тор
R59	Metal Film Resistor	2.2	3W		AXIAL-Ø5.5 x 16mm	Тор
R60	Resistor	22k	1/8W		0805	Тор
R61	Resistor	5.1k	1/8W		0805	Тор
R62	Resistor	1.1k	1/8W	1%	0805	Тор
R63	Metal Film Resistor	68	3W		AXIAL-Ø5.5 x 16mm	Тор
R64	Resistor	26.1k	1/8W	1%	0805	Тор
R65	Resistor	10k	1/8W	1%	0805	Тор
R66	Resistor	10k	1/8W	1%	0805	Тор
R67	Resistor	10k	1/8W	1%	0805	Тор
R68	Resistor	1k	1/8W		0805	Тор
R69	Resistor	10k	1/8W		0805	Тор
R70	Resistor	10k	1/8W	1%	0805	Тор
R71	Resistor	3k	1/8W		0805	Тор
R72	Metal Film Resistor	18k	3W		AXIAL-Ø5.5 x 16mm	Тор
R88	Resistor	1.21k	1/8W		0805	Тор

R90	Resistor	470	1/8W		0805	Тор
R91	Resistor	470	1/8W		0805	Тор
R92	Resistor	470	1/4W		1206	Тор
R93	Resistor	2.2	1/4W		1206	Тор
RP1	Potentiometer	10k	10k 0.1W		PT6KV	Тор
RP2	Potentiometer	10k	0.1W		PT6KV	Тор
RP5	Potentiometer	10k	0.1W		PT6KV	Тор
RP6	Potentiometer	10k	0.1W		PT6KV	Тор
RP7	Potentiometer	10k	0.1W		PT6KV	Тор
RP8	Potentiometer	10k	0.1W		PT6KV	Тор
RT1	Thermistor	10k	15mW		THERMAL RES	Тор
SW1	DIP Switch, 2 pos.				2.54mm pich	Тор
T1	Output Transformer				D12A-R1B	Тор
T2	Balun Transformer					Тор
Т3	Output Transformer				D12A-R1B	Тор
U1	Dual Precision Monostable Multivibrator	MC74HC4538			SO16	Тор
U2	Dual 4-Input NOR Gate	CD74HC4002M			SO14	Тор
U3	Dual Differential Comparator	LM393			SO8	Тор
U4	Dual Differential Comparator	LM393			SO8	Тор
U5	Dual Precision Monostable Multivibrator	MC74HC4538			SO16	Тор
U6	Operational Amplifier	TLV2372			SO8	Тор
U7	Precision Temperature Sensor	LM335Z			TO-92	Тор
U8	Darlington Transistor Array	ULN2003			SO16	Тор
U9	Current Sensor IC	ACS723			SO8	Тор
U11		TLV2372			SO8	Тор
VR1	Voltage Regulator	78L05			SOT-89	Тор
VR2	Voltage Regulator	78L12			SOT-89	Тор
ZD1	Zener Diode	BZX84C18	0.3W		SOT-23	Тор
ZD2	Zener Diode	BZX84C4V7	0.3W		SOT-23	Тор

FILTER UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Pacage	Layer
C1	Capacitor	100nF	50V		0805	Bottom
C2	Capacitor	100nF	50V		0805	Bottom
C3	Capacitor	100nF	50V		0805	Bottom
C4	Capacitor	100nF	50V		0805	Bottom
C5	Capacitor	100nF	50V		0805	Bottom

C6	Capacitor	100nF	50V	0805	Bottom
C7	Capacitor	100nF	50V	0805	Bottom
C8	Capacitor	100nF	50V	0805	Bottom
C9	Capacitor	100nF	50V	0805	Bottom
C10	Capacitor	100nF	50V	0805	Bottom
C11	Capacitor	100nF	50V	0805	Bottom
C12		NC		1111	Bottom
C13		NC		1111	Bottom
C14	High Q Cap.	47pF	1.5kV	1111	Bottom
C15	High Q Cap.	39pF	1.5kV	1111	Bottom
C16	High Q Cap.	22pF	1.5kV	1111	Bottom
C17		NC		1111	Bottom
C18		NC		1111	Bottom
C19	High Q Cap.	56pF	1.5kV	1111	Bottom
C20		NC		1111	Bottom
C21	High Q Cap.	56pF	1.5kV	1111	Bottom
C22	High Q Cap.	68pF	1.5kV	1111	Bottom
C23	High Q Cap.	6.8pF	1.5kV	1111	Bottom
C24	High Q Cap.	39pF	1.5kV	1111	Bottom
C25		NC		1111	Bottom
C26	Capacitor	100nF	50V	0805	Bottom
C27	Capacitor	100nF	50V	0805	Bottom
C28	Capacitor	100nF	50V	0805	Bottom
C29		NC		1111	Bottom
C30		NC		1111	Bottom
C31	High Q Cap.	82pF	1.5kV	1111	Bottom
C32	High Q Cap.	68pF	1.5kV	1111	Bottom
C33	High Q Cap.	39pF	1.5kV	1111	Bottom
C34		NC		1111	Bottom
C35		NC		1111	Bottom
C36	High Q Cap.	100pF	1.5kV	1111	Bottom
C37	High Q Cap.	100pF	1.5kV	1111	Bottom
C38	High Q Cap.	NC	1.5kV	1111	Bottom
C39	High Q Cap.	82pF	1.5kV	1111	Bottom
C40	High Q Cap.	47pF	1.5kV	1111	Bottom
C41	High Q Cap.	68pF	1.5kV	1111	Bottom
C42		NC		1111	Bottom
C43	Capacitor	100nF	50V	0805	Bottom
C44	Capacitor	100nF	50V	0805	Bottom
C45	Capacitor	100nF	50V	0805	Bottom
C46	High Q Cap.	220pF	1.5kV	1111	Bottom
C47		NC		1111	Bottom
C48	High Q Cap.	33pF	1.5kV	1111	Bottom
C49	High Q Cap.	220pF	1.5kV	1111	Bottom
C50	High Q Cap.	82pF	1.5kV	1111	Bottom
C51		NC		1111	Bottom
C52		NC		1111	Bottom

C53	High Q Cap.	300pF	1kV	1111	Bottom
C54		NC		1111	Bottom
C55	High Q Cap.	300pF	1kV	1111	Bottom
C56	High Q Cap.	390pF	1kV	1111	Bottom
C57		NC		1111	Bottom
C58	High Q Cap.	220pF	1.5kV	1111	Bottom
C59		NC		1111	Bottom
C60	Capacitor	100nF	50V	0805	Bottom
C61	Capacitor	100nF	50V	0805	Bottom
C62	High Q Cap.	68pF	1.5kV	1111	Bottom
C63	Capacitor	100nF	50V	0805	Bottom
C64	High Q Cap.	82pF	1.5kV	1111	Bottom
C65	High Q Cap.	56pF	1.5kV	1111	Bottom
C66	High Q Cap.	56pF	1.5kV	1111	Bottom
C67	High Q Cap.	68pF	1.5kV	1111	Bottom
C68		NC		1111	Bottom
C69		NC		1111	Bottom
C70	High Q Cap.	82pF	630V	1111	Bottom
C71	High Q Cap.	82pF	1kV	1111	Bottom
C72	High Q Cap.	82pF	1kV	1111	Bottom
C73	High Q Cap.	220pF	1kV	1111	Bottom
C74	3	NC		1111	Bottom
C75	High Q Cap.	68pF	1.5kV	1111	Bottom
C76	High Q Cap.	56pF	1.5kV	1111	Bottom
C77	Capacitor	100nF	50V	0805	Bottom
C78	Capacitor	100nF	50V	0805	Bottom
C79	High Q Cap.	180pF	1.5kV	1111	Bottom
C80	High Q Cap.	390pF	1.5kV	1111	Bottom
C81	Capacitor	100nF	50V	0805	Bottom
C82		NC		1111	Bottom
C83	High Q Cap.	220pF	1.5kV	1111	Bottom
C84		NC	119111	1111	Bottom
C85	High Q Cap.	180pF	1kV	1111	Bottom
C86	3	NC		1111	Bottom
C87		NC		1111	Bottom
C88	High Q Cap.	200pF	1kV	1111	Bottom
C89	High Q Cap.	200pF	1kV	1111	Bottom
C90	High Q Cap.	200pF	1kV	1111	Bottom
C91	High Q Cap.	330pF	1.5kV	1111	Bottom
C92	High Q Cap.	68pF	1.5kV	1111	Bottom
C93	g ~ 0%p.	NC	1	1111	Bottom
C94		NC	+	1111	Bottom
C95	High Q Cap.	200pF	1kV	1111	Bottom
C96	High Q Cap.	200pF	1kV	1111	Bottom
C97	High Q Cap.	200pF	1kV	1111	Bottom
C98	High Q Cap.	200pF	1kV	1111	Bottom
C99	High Q Cap.	200pF	1kV	1111	Bottom
Caa	riigii Q Cap.	Ζυυμτ	INV	1111	DOMONI

C102	C100	High Q Cap.	200pF	1kV	1111	Bottom
C103 C104 High Q Cap. S90pF 1.5kV 11111 Bottom C106 High Q Cap. S90pF 1.5kV 11111 Bottom C107 Capacitor 100nF S0V 0805 Bottom C108 Capacitor 100nF S0V 0805 Bottom C109 High Q Cap. S90pF 1kV 11111 Bottom C110 High Q Cap. S90pF 1kV 11111 Bottom C110 High Q Cap. S90pF 1kV 11111 Bottom C1111 Capacitor C110 High Q Cap. S90pF 1.5kV 11111 Bottom C112 High Q Cap. S90pF 1.5kV 11111 Bottom C113 High Q Cap. S90pF 1.5kV 11111 Bottom C114 NC 1111 Bottom C116 High Q Cap. S90pF 1kV 11111 Bottom C117 NC 1111 High Q Cap. S90pF 1kV 11111 Bottom C118 High Q Cap. S90pF 1kV 11111 Bottom C119 High Q Cap. S90pF 1kV 11111 Bottom C110 High Q Cap. S90pF 1kV 11111 Bottom C1111 High Q Cap. S90pF 1kV 11111 Bottom C112 High Q Cap. S90pF 1kV 11111 Bottom C113 High Q Cap. S90pF 1kV 11111 Bottom C114 High Q Cap. S90pF 1kV 11111 Bottom C112 High Q Cap. S90pF 1kV 11111 Bottom C122 High Q Cap. S90pF 1kV 11111 Bottom C122 High Q Cap. S90pF 1kV 11111 Bottom C122 High Q Cap. S90pF 1kV 11111 Bottom C123 High Q Cap. S90pF 1kV 11111 Bottom C124 High Q Cap. S90pF 1kV 11111 Bottom C125 High Q Cap. S90pF 1kV 11111 Bottom C126 High Q Cap. S90pF 1kV 11111 Bottom C127 High Q Cap. S90pF 1kV 11111 Bottom C128 High Q Cap. S90pF 1kV 11111 Bottom C129 High Q Cap. S90pF 1kV 11111 Bottom C120 High Q Cap. S90pF 1kV 11111 Bottom C121 High Q Cap. S90pF 1kV 11111 Bottom C122 High Q Cap. S90pF 1kV 11111 Bottom C123 High Q Cap. S90pF 1kV 11111 Bottom C124 High Q Cap. S90pF 1kV 11111 Bottom C125 High Q Cap. S90pF 1kV 11111 Bottom C126 High Q Cap. S90pF 1kV 11111 Bottom C127 High Q Cap. S90pF 1kV 11111 Bottom C132 High Q Cap. S90pF 1kV 11111 Bottom C133 High Q Cap. S90pF 1kV 11111 Bottom C134 High Q Cap. S90pF 1kV 11111	C101		NC		1111	Bottom
C104	C102		NC		1111	Bottom
C105	C103		NC		1111	Bottom
C106	C104	High Q Cap.	390pF	1.5kV	1111	Bottom
C107	C105	High Q Cap.	56pF	1.5kV	1111	Bottom
C108	C106		NC		1111	Bottom
C109 High Q Cap. 560pF 1kV 11111 Bottom C110 High Q Cap. 680pF 1kV 11111 Bottom C1111 Capacitor 100nF 50V 0805 Bottom C112 High Q Cap. 300pF 1.5kV 11111 Bottom C113 High Q Cap. 300pF 1.5kV 11111 Bottom C114 NC 1111 Bottom C115 High Q Cap. 390pF 1kV 11111 Bottom C116 High Q Cap. 390pF 1kV 11111 Bottom C117 NC 11111 Bottom C118 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C120 High Q Cap. 390pF 1kV 11111 Bottom C121 High Q Cap. 390pF 1kV 11111 Bottom C122 High Q Cap. 680pF 1kV 11111 Bottom C123 High Q Cap. 560pF 1kV 11111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 11111 Bottom C126 High Q Cap. 390pF 1kV 11111 Bottom C127 High Q Cap. 10pF 1.5kV 11111 Bottom C128 High Q Cap. 390pF 1kV 11111 Bottom C129 NC 11111 Bottom C121 High Q Cap. 390pF 1kV 11111 Bottom C122 High Q Cap. 390pF 1kV 11111 Bottom C123 High Q Cap. 390pF 1kV 11111 Bottom C124 NC 11111 Bottom C125 High Q Cap. 390pF 1kV 11111 Bottom C126 High Q Cap. 390pF 1kV 11111 Bottom C127 High Q Cap. 390pF 1kV 11111 Bottom C128 High Q Cap. 390pF 1kV 11111 Bottom C129 NC 11111 Bottom C129 NC 11111 Bottom C129 NC 11111 Bottom C130 High Q Cap. 390pF 1kV 11111 Bottom C131 High Q Cap. 390pF 1kV 11111 Bottom C132 High Q Cap. 390pF 1kV 11111 Bottom C133 High Q Cap. 390pF 1kV 11111 Bottom C134 High Q Cap. 390pF 1kV 11111 Bottom C135 High Q Cap. 390pF 1kV 11111 Bottom C136 High Q Cap. 390pF 1kV 11111 Bottom C137 High Q Cap. 560pF 1.5kV 11111 Bottom C138 High Q Cap. 560pF 1.5kV 11111 Bottom C139 High Q Cap. 560pF 1.5kV 11111 Bottom C130 High Q Cap. 560pF 1.5kV 11111 Bottom C131 High Q Cap. 560pF 1.5kV 11111 Bottom C132 High Q Cap. 560pF 1.5kV 11111 Bottom C134 High Q Cap. 560pF 1.5kV 11111 Bottom C135 High Q Cap. 560pF 1.5kV 11111 Bottom C136 High Q Cap. 560pF 1.5kV 11111 Bottom C137 High Q Cap. 560pF 1.5kV 11111 Bottom C144 High Q Cap. 560pF 1.5kV 11111 Bottom C144 High Q Cap. 560pF 1.5kV 11111 Bottom C145 High Q Cap. 560pF 1.5kV 11111 Bottom	C107	Capacitor	100nF	50V	0805	Bottom
C110 High Q Cap. 680pF 1kV 11111 Bottom C112 High Q Cap. 300pF 1.5kV 11111 Bottom C113 High Q Cap. 300pF 1.5kV 11111 Bottom C114 NC 11111 Bottom C115 High Q Cap. 390pF 1kV 11111 Bottom C116 High Q Cap. 390pF 1kV 11111 Bottom C117 NC 11111 Bottom C118 High Q Cap. 390pF 1kV 11111 Bottom C118 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C120 High Q Cap. 390pF 1kV 11111 Bottom C121 High Q Cap. 680pF 1kV 11111 Bottom C122 High Q Cap. 560pF 1kV 11111 Bottom C123 High Q Cap. 10pF 1.5kV 11111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 11111 Bottom C126 High Q Cap. 390pF 1kV 11111 Bottom C127 High Q Cap. 390pF 1kV 11111 Bottom C128 High Q Cap. 390pF 1kV 11111 Bottom C129 NC 1111 Bottom C120 High Q Cap. 390pF 1kV 11111 Bottom C121 High Q Cap. 390pF 1kV 11111 Bottom C122 High Q Cap. 390pF 1kV 11111 Bottom C123 High Q Cap. 390pF 1kV 11111 Bottom C124 NC 11111 Bottom C125 High Q Cap. 390pF 1kV 11111 Bottom C126 High Q Cap. 390pF 1kV 11111 Bottom C127 High Q Cap. 390pF 1kV 11111 Bottom C128 High Q Cap. 390pF 1kV 11111 Bottom C129 NC 11111 Bottom C129 NC 11111 Bottom C130 NC 11111 Bottom C131 High Q Cap. 390pF 1kV 11111 Bottom C132 High Q Cap. 390pF 1kV 11111 Bottom C133 High Q Cap. 390pF 1kV 11111 Bottom C134 High Q Cap. 390pF 1kV 11111 Bottom C135 High Q Cap. 390pF 1kV 11111 Bottom C136 High Q Cap. 390pF 1kV 11111 Bottom C137 High Q Cap. 390pF 1kV 11111 Bottom C138 High Q Cap. 560pF 1.5kV 11111 Bottom C139 High Q Cap. 560pF 1.5kV 11111 Bottom C130 High Q Cap. 560pF 1.5kV 11111 Bottom C131 High Q Cap. 560pF 1.5kV 11111 Bottom C132 High Q Cap. 560pF 1.5kV 11111 Bottom C134 High Q Cap. 560pF 1.5kV 11111 Bottom C135 High Q Cap. 560pF 1.5kV 11111 Bottom C136 High Q Cap. 560pF 1.5kV 11111 Bottom C137 High Q Cap. 560pF 1.5kV 11111 Bottom C138 High Q Cap. 560pF 1.5kV 11111 Bottom C140 High Q Cap. 560pF 1.5kV 11111 Bottom C141 High Q Cap. 560pF 1.5kV 11111 Bottom C142 High Q Cap. 560pF 1.5kV 11111 Bottom	C108	Capacitor	100nF	50V	0805	Bottom
C111 Capacitor 100nF 50V 0805 Bottom C112 High Q Cap. 300pF 1.5kV 1111 Bottom C113 High Q Cap. 300pF 1.5kV 11111 Bottom C114 NC 11111 Bottom C115 High Q Cap. 390pF 1kV 11111 Bottom C116 High Q Cap. 390pF 1kV 11111 Bottom C117 NC 11111 Bottom C117 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C120 High Q Cap. 390pF 1kV 11111 Bottom C121 High Q Cap. 680pF 1kV 11111 Bottom C122 High Q Cap. 680pF 1kV 11111 Bottom C123 High Q Cap. 10pF 1.5kV 11111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 10pF 1.5kV 1111 Bottom C128 High Q Cap. 390pF 1kV 1111 Bottom C129 NC 1111 Bottom C130 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C130 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 390pF 1kV 1111 Bottom C137 High Q Cap. 390pF 1kV 1111 Bottom C138 High Q Cap. 560pF 1.5kV 1111 Bottom C139 High Q Cap. 560pF 1.5kV 1111 Bottom C130 High Q Cap. 560pF 1.5kV 1111 Bottom C131 High Q Cap. 560pF 1.5kV 1111 Bottom C132 High Q Cap. 560pF 1.5kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C140 High Q Cap. 560pF 1.5kV 1111 Bottom C141 High Q Cap. 560pF 1.5kV 1111 Bottom C142 High Q Cap. 560pF 1.5kV 1111 Bottom C144 High Q Cap. 560pF 1.5kV 1111 Bottom	C109	High Q Cap.	560pF	1kV	1111	Bottom
C112 High Q Cap. 300pF 1.5kV 1111 Bottom C113 High Q Cap. 300pF 1.5kV 1111 Bottom C114 NC 11111 Bottom C115 High Q Cap. 390pF 1kV 11111 Bottom C116 High Q Cap. 390pF 1kV 11111 Bottom C116 High Q Cap. 390pF 1kV 11111 Bottom C117 NC 11111 Bottom 1111 Bottom C118 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C120 High Q Cap. 580pF 1kV 11111 Bottom C121 High Q Cap. 580pF 1kV 11111 Bottom C122 High Q Cap. 390pF 1kV 11111 Bottom C123 High Q Cap. 390pF 1kV 11111 Bottom	C110	High Q Cap.	680pF	1kV	1111	Bottom
C113 High Q Cap. 300pF 1.5kV 1111 Bottom C114 NC 1111 Bottom C115 High Q Cap. 390pF 1kV 11111 Bottom C116 High Q Cap. 390pF 1kV 11111 Bottom C117 NC 11111 Bottom C118 High Q Cap. 390pF 1kV 1111 Bottom C119 High Q Cap. 390pF 1kV 1111 Bottom C120 High Q Cap. 390pF 1kV 1111 Bottom C121 High Q Cap. 560pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 390pF 1kV 1111 Bottom C124 NC 15kV 1111 Bottom C124 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF	C111	Capacitor	100nF	50V	0805	Bottom
C114 NC 1111 Bottom C115 High Q Cap. 390pF 1kV 1111 Bottom C116 High Q Cap. 390pF 1kV 1111 Bottom C117 NC 11111 Bottom C118 High Q Cap. 390pF 1kV 1111 Bottom C119 High Q Cap. 390pF 1kV 1111 Bottom C120 High Q Cap. 390pF 1kV 1111 Bottom C121 High Q Cap. 680pF 1kV 1111 Bottom C121 High Q Cap. 560pF 1kV 1111 Bottom C122 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom 1111 Bottom C124 NC 1111 Bottom 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 330pF <td>C112</td> <td>High Q Cap.</td> <td>300pF</td> <td>1.5kV</td> <td>1111</td> <td>Bottom</td>	C112	High Q Cap.	300pF	1.5kV	1111	Bottom
C115 High Q Cap. 390pF 1kV 1111 Bottom C116 High Q Cap. 390pF 1kV 1111 Bottom C117 NC 11111 Bottom C118 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C120 High Q Cap. 390pF 1kV 11111 Bottom C121 High Q Cap. 680pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom 1111 Bottom C124 NC 1111 Bottom 1111 Bottom C124 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127	C113	High Q Cap.	300pF	1.5kV	1111	Bottom
C116 High Q Cap. 390pF 1kV 1111 Bottom C117 NC 11111 Bottom C118 High Q Cap. 390pF 1kV 11111 Bottom C119 High Q Cap. 390pF 1kV 11111 Bottom C120 High Q Cap. 680pF 1kV 11111 Bottom C121 High Q Cap. 680pF 1kV 11111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 11111 Bottom C124 NC 11111 Bottom 1111 Bottom C125 High Q Cap. 390pF 1kV 11111 Bottom C125 High Q Cap. 390pF 1kV 11111 Bottom C127 High Q Cap. 390pF 1kV 11111 Bottom C128 High Q Cap. 390pF 1kV 11111 Bottom	C114		NC		1111	Bottom
C117 NC 1111 Bottom C118 High Q Cap. 390pF 1kV 1111 Bottom C119 High Q Cap. 390pF 1kV 1111 Bottom C120 High Q Cap. 680pF 1kV 1111 Bottom C121 High Q Cap. 680pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C123 High Q Cap. 390pF 1kV 1111 Bottom C124 NC 1111 Bottom 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 390pF 1kV 1111 Bottom C1	C115	High Q Cap.	390pF	1kV	1111	Bottom
C118 High Q Cap. 390pF 1kV 1111 Bottom C119 High Q Cap. 390pF 1kV 1111 Bottom C120 High Q Cap. 390pF 1kV 1111 Bottom C121 High Q Cap. 680pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C130 NC 1111 Bottom 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 <td< td=""><td>C116</td><td>High Q Cap.</td><td>390pF</td><td>1kV</td><td>1111</td><td>Bottom</td></td<>	C116	High Q Cap.	390pF	1kV	1111	Bottom
C119 High Q Cap. 390pF 1kV 1111 Bottom C120 High Q Cap. 390pF 1kV 1111 Bottom C121 High Q Cap. 680pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 390pF 1kV 1111 Bottom C129 NC 1111 Bottom 1111 Bottom C130 NC 1111 Bottom 1111 Bottom C131 High Q Cap. 390pF	C117		NC		1111	Bottom
C120 High Q Cap. 390pF 1kV 1111 Bottom C121 High Q Cap. 680pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom 1111 Bottom C130 NC 1111 Bottom 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF	C118	High Q Cap.	390pF	1kV	1111	Bottom
C121 High Q Cap. 680pF 1kV 1111 Bottom C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom 1111 Bottom C130 NC 1111 Bottom 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF	C119	High Q Cap.	390pF	1kV	1111	Bottom
C122 High Q Cap. 560pF 1kV 1111 Bottom C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom 1111 Bottom C130 NC 1111 Bottom 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 <td>C120</td> <td>High Q Cap.</td> <td>390pF</td> <td>1kV</td> <td>1111</td> <td>Bottom</td>	C120	High Q Cap.	390pF	1kV	1111	Bottom
C123 High Q Cap. 10pF 1.5kV 1111 Bottom C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom 1111 Bottom C130 NC 1111 Bottom 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136<	C121	High Q Cap.	680pF	1kV	1111	Bottom
C124 NC 1111 Bottom C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom C130 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom	C122	High Q Cap.	560pF	1kV	1111	Bottom
C125 High Q Cap. 390pF 1kV 1111 Bottom C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom C130 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1	C123	High Q Cap.	10pF	1.5kV	1111	Bottom
C126 High Q Cap. 390pF 1kV 1111 Bottom C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV	C124		NC		1111	Bottom
C127 High Q Cap. 390pF 1kV 1111 Bottom C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 115kV 1111 Bottom C139 High Q Cap. 56pF <t< td=""><td>C125</td><td>High Q Cap.</td><td>390pF</td><td>1kV</td><td>1111</td><td>Bottom</td></t<>	C125	High Q Cap.	390pF	1kV	1111	Bottom
C128 High Q Cap. 330pF 1kV 1111 Bottom C129 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV	C126	High Q Cap.	390pF	1kV	1111	Bottom
C129 NC 1111 Bottom C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 56pF 1.5kV 1111 Bottom C142 High Q Cap. 56pF 1.5kV <	C127	High Q Cap.	390pF	1kV	1111	Bottom
C130 NC 1111 Bottom C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1.5kV 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143	C128	High Q Cap.	330pF	1kV	1111	Bottom
C131 High Q Cap. 390pF 1kV 1111 Bottom C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1.5kV 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom<	C129		NC		1111	Bottom
C132 High Q Cap. 390pF 1kV 1111 Bottom C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 56pF 1.5kV 1111 Bottom <tr< td=""><td>C130</td><td></td><td>NC</td><td></td><td>1111</td><td>Bottom</td></tr<>	C130		NC		1111	Bottom
C133 High Q Cap. 390pF 1kV 1111 Bottom C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 56pF 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom <t< td=""><td>C131</td><td>High Q Cap.</td><td>390pF</td><td>1kV</td><td>1111</td><td>Bottom</td></t<>	C131	High Q Cap.	390pF	1kV	1111	Bottom
C134 High Q Cap. 560pF 1.5kV 1111 Bottom C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 56pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C132	High Q Cap.	390pF	1kV	1111	Bottom
C135 High Q Cap. 560pF 1.5kV 1111 Bottom C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C133	High Q Cap.	390pF	1kV	1111	Bottom
C136 High Q Cap. 27pF 1.5kV 1111 Bottom C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C134	High Q Cap.	560pF	1.5kV	1111	Bottom
C137 High Q Cap. 18pF 1.5kV 1111 Bottom C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. NC 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C135	High Q Cap.	560pF	1.5kV	1111	Bottom
C138 NC 1111 Bottom C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C136	High Q Cap.	27pF	1.5kV	1111	Bottom
C139 High Q Cap. 20pF 1.5kV 1111 Bottom C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C137	High Q Cap.	18pF	1.5kV	1111	Bottom
C140 High Q Cap. 56pF 1.5kV 1111 Bottom C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C138		NC		1111	Bottom
C141 High Q Cap. 33pF 1.5kV 1111 Bottom C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C139	High Q Cap.	20pF	1.5kV	1111	Bottom
C142 High Q Cap. NC 1.5kV 1111 Bottom C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C140	High Q Cap.	56pF	1.5kV	1111	Bottom
C143 High Q Cap. 56pF 1.5kV 1111 Bottom C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C141	High Q Cap.	33pF	1.5kV	1111	Bottom
C144 High Q Cap. 82pF 1.5kV 1111 Bottom C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C142	High Q Cap.	NC	1.5kV	1111	Bottom
C145 High Q Cap. 100pF 1.5kV 1111 Bottom	C143	High Q Cap.	56pF	1.5kV	1111	Bottom
	C144	High Q Cap.	82pF	1.5kV	1111	Bottom
C146 High Q Cap. 33pF 1.5kV 1111 Bottom	C145	High Q Cap.	100pF	1.5kV	1111	Bottom
	C146	High Q Cap.	33pF	1.5kV	1111	Bottom

C147	High Q Cap.	33pF	1.5kV	1111	Bottom
C148	High Q Cap.	82pF	1.5kV	1111	Bottom
C149	High Q Cap.	56pF	1.5kV	1111	Bottom
C150		NC		1111	Bottom
C151	High Q Cap.	220pF	1.5kV	1111	Bottom
C152		NC		1111	Bottom
C153	High Q Cap.	100pF	1.5kV	1111	Bottom
C154	High Q Cap.	200pF	1.5kV	1111	Bottom
C155	High Q Cap.	300pF	1.5kV	1111	Bottom
C156	High Q Cap.	300pF	1.5kV	1111	Bottom
C157		NC		1111	Bottom
C158	High Q Cap.	300pF	1.5kV	1111	Bottom
C159	High Q Cap.	300pF	1.5kV	1111	Bottom
C160		NC		1111	Bottom
C161		NC		1111	Bottom
C162		NC		1111	Bottom
C163	High Q Cap.	82pF	1.5kV	1111	Bottom
C164		NC		1111	Bottom
C165	High Q Cap.	330pF	1kV	1111	Bottom
C166		NC		1111	Bottom
C167		NC		1111	Bottom
C168		NC		1111	Bottom
C169		NC		1111	Bottom
C170		NC		1111	Bottom
C171		NC		1111	Bottom
C172		NC		1111	Bottom
C173	High Q Cap.	82pF	1.5kV	1111	Bottom
C174		NC		1111	Bottom
C175	High Q Cap.	10pF	1.5kV	1111	Bottom
C176		NC		1111	Bottom
C177	High Q Cap.	120pF	1.5kV	1111	Bottom
C178	High Q Cap.	100pF	1.5kV	1111	Bottom
C179	High Q Cap.	150pF	1.5kV	1111	Bottom
C180		NC		1111	Bottom
C181	Capacitor	10nF	100V	disc Ø8mm	Тор
C182	Capacitor	100nF	50V	0805	Bottom
C183	Capacitor	100nF	50V	0805	Bottom
C184	High Q Cap.	240pF	1.5kV	1111	Bottom
D1	Diode	LL4148	100V	SOD-80	Bottom
D2	Diode	LL4148	100V	SOD-80	Bottom
D3	Diode	LL4148	100V	SOD-80	Bottom
D4	Diode	LL4148	100V	SOD-80	Bottom
D5	Diode	LL4148	100V	SOD-80	Bottom
D6	Diode	LL4148	100V	SOD-80	Bottom
D7	Diode	LL4148	100V	SOD-80	Bottom
D8	Diode	LL4148	100V	SOD-80	Bottom
D9	Diode	LL4148	100V	SOD-80	Bottom

D10	Diode	LL4148	100V		SOD-80	Bottom
D11	Diode	CD4148WS	75V		0805	Bottom
D12	Diode	CD4148WS	75V		0805	Bottom
D13	Diode	CD4148WS	75V		0805	Bottom
D14	Diode	CD4148WS	75V		0805	Bottom
D15	Diode	CD4148WS	75V		0805	Bottom
D16	Diode	CD4148WS	75V		0805	Bottom
D17	Diode	CD4148WS	75V		0805	Bottom
D18	Diode	CD4148WS	75V		0805	Bottom
D19	Diode	CD4148WS	75V		0805	Bottom
D20	Diode	CD4148WS	75V		0805	Bottom
D21	Diode	CD4148WS	75V		0805	Bottom
D22	Diode	CD4148WS	75V		0805	Bottom
J1	Connector, 10-Pin				MTA100 10p	Тор
J2	Plug Coaxial				HSF-141	Тор
J3	Plug Coaxial				HSF-141	Тор
J4	Plug Coaxial				RG188	Тор
J5	Header, 3-Pin				MTA100 3p	Тор
K1	Relay	RTE24024	24V		RT2	Тор
K2	Relay	RTE24024	24V		RT2	Тор
K3	Relay	TQ2-24V	24V		TQ2	Тор
K4	Relay	RTE24024	24V		RT2	Тор
K5	Relay	RTE24024	24V		RT2	Тор
K6	Relay	TQ2-24V	24V		TQ2	Тор
K7	Relay	RTE24024	24V		RT2	Тор
K8	Relay	RTE24024	24V		RT2	Тор
K9	Relay	TQ2-24V	24V		TQ2	Тор
K10	Relay	RTE24024	24V		RT2	Тор
K11	Relay	RTE24024	24V		RT2	Тор
K12	Relay	TQ2-24V	24V		TQ2	Тор
K13	Relay	RTE24024	24V		RT2	Тор
K14	Relay	RTE24024	24V		RT2	Тор
K15	Relay	TQ2-24V	24V		TQ2	Тор
K16	Relay	RTE24024	24V		RT2	Тор
K17	Relay	RTE24024	24V		RT2	Тор
K18	Relay	TQ2-24V	24V		TQ2	Тор
K19	Relay	G5V-1-24V	24V		G5V-1	Тор
L1	Inductor	22uH		190mA	1812	Bottom
L2	Inductor	22uH		190mA	1812	Bottom
L3	Inductor	22uH		190mA	1812	Bottom
L4	Inductor	22uH		190mA	1812	Bottom
L5	Inductor	22uH		190mA	1812	Bottom
L6	Inductor	22uH		190mA	1812	Bottom
L7	Inductor	22uH		190mA	1812	Bottom
L8	Inductor	22uH		190mA	1812	Bottom
L9	Toroidal Coil	133nH			T106-2	Тор

L10	Toroidal Coil	120nH		T106-2	Тор
L11	Toroidal Coil	157nH		T106-2	Тор
L12	Air Coil	169nH	8 turns, Ø1.3mm, d=10mm		Тор
L13	Toroidal Coil	191nH		T106-2	Тор
L14	Air Coil	135nH	8 turns, Ø1.3mm, d=10mm		Тор
L15	Toroidal Coil	242nH		T106-2	Тор
L16	Toroidal Coil	219nH		T106-2	Тор
L17	Toroidal Coil	286nH		T106-2	Тор
L18	Toroidal Coil	349nH		T106-2	Тор
L19	Toroidal Coil	307nH		T80	Тор
L20	Toroidal Coil	245nH		T80	Тор
L21	Toroidal Coil	0.7uH		T106-2	Тор
L22	Toroidal Coil	0.635uH		T106-2	Тор
L23	Toroidal Coil	0.83uH		T106-2	Тор
L24	Toroidal Coil	1.01uH		T106-2	Тор
L25	Toroidal Coil	0.89uH		T80	Тор
L26	Toroidal Coil	0.71uH		T80	Тор
L27	Toroidal Coil	395nH		T106-2	Тор
L28	Toroidal Coil	468nH		T106-2	Тор
L29	Toroidal Coil	569nH		T106-2	Тор
L30	Toroidal Coil	502nH		T80	Тор
L31	Toroidal Coil	358nH		T106-2	Тор
L32	Toroidal Coil	400nH		T80	Тор
L33	Toroidal Coil	1.8uH		T106-2	Тор
L34	Toroidal Coil	2.13uH		T106-2	Тор
L35	Toroidal Coil	2.59uH		T106-2	Тор
L36	Toroidal Coil	2.28uH		T80	Тор
L37	Toroidal Coil	1.63uH		T106-2	Тор
L38	Toroidal Coil	1.82uH		T80	Тор
L39	Toroidal Coil	3.59uH		T106-2	Тор
L40	Toroidal Coil	4.25uH		T106-2	Тор
L41	Toroidal Coil	5.17uH		T106-2	Тор
L42	Toroidal Coil	4.56uH		T80	Тор
L43	Toroidal Coil	3.26uH		T106-2	Тор
L44	Toroidal Coil	3.64uH		T80	Тор
L45	Toroidal Coil	22uH		1812	Bottom
L46	Inductor	22uH	190mA	1812	Bottom
L47	Inductor	22uH	190mA	1812	Bottom
L48	Inductor	22uH	190mA	1812	Bottom
L49	Inductor	22uH	190mA	1812	Bottom
L50	Inductor	22uH	190mA	1812	Bottom
L51	Inductor	22uH	190mA	1812	Bottom
L52	Inductor	22uH	190mA	1812	Bottom
L53	Inductor	22uH	190mA	1812	Bottom
L54	Inductor	22uH	190mA	1812	Bottom

L55	Inductor	22uH		190mA	1812	Bottom
L56	Inductor	22uH		190mA	1812	Bottom
L57	Inductor	22uH		190mA	1812	Bottom
L58	Inductor	22uH		190mA	1812	Bottom
R1	Resistor	10	1W		AXIAL-Ø2.5 x 6.5mm	Тор

CPU UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
C1	Capacitor	100nF	50V	X7R	0805	Bottom
C2	Capacitor	100nF	50V	X7R	0805	Bottom
C3	Capacitor	100nF	50V	X7R	0805	Bottom
C4	Capacitor	100nF	50V	X7R	0805	Bottom
C5	Capacitor	100nF	50V	X7R	0805	Bottom
C6	Capacitor	100nF	50V	X7R	0805	Bottom
C7	Capacitor	100nF	50V	X7R	0805	Bottom
C101	Capacitor	100nF	50V	X7R	0805	Тор
C102	Capacitor	1uF	50V	X7R	0805	Тор
C103	Capacitor	10nF	50V	X7R	0805	Тор
C104	Capacitor	10nF	50V	X7R	0805	Тор
C105	Capacitor	10nF	50V	X7R	0805	Тор
C106	Capacitor	1uF	50V	X7R	0805	Тор
C107	Capacitor	100nF	50V	X7R	0805	Тор
C108	Capacitor	100nF	50V	X7R	0805	Тор
C109	Capacitor	4.7uF	25V	X7R	0805	Тор
C110	Capacitor	4.7uF	25V	X7R	0805	Тор
C111	Capacitor	100nF	50V	X7R	0805	Тор
C201	Capacitor	100nF	50V	X7R	0805	Тор
C202	Capacitor	100nF	50V	X7R	0805	Тор
C203	Capacitor	100nF	50V	X7R	0805	Тор
C204	Capacitor	100nF	50V	X7R	0805	Bottom
C205	Capacitor	1uF	50V	X7R	0805	Bottom
C206	Capacitor	1uF	50V	X7R	0805	Тор
C207	Capacitor	1uF	50V	X7R	0805	Bottom
C208	Capacitor	1uF	50V	X7R	0805	Тор
C209	Capacitor	1uF	50V	X7R	0805	Тор
C210	Capacitor	100nF	50V	X7R	0805	Тор
C211	Capacitor	10nF	50V	X7R	0805	Bottom
C212	'	Not placed			0805	Тор
C213		Not placed			0805	Тор
C214	Capacitor	4.7uF	25V	X7R	0805	Тор
C215	Capacitor	100nF	50V	X7R	0805	Bottom
C216	•	Not placed			0805	Тор
C217	Trimmer Capacitor	4.2-20pF	100V	N750	TZ03	Bottom
C218	Capacitor	18pF	50V	C0G	0805	Тор
C219	Capacitor	18pF	50V	C0G	0805	Тор
C301	Capacitor	10nF	50V	X7R	0805	Тор
C302	Capacitor	10nF	50V	X7R	0805	Тор
C303	Capacitor	10nF	50V	X7R	0805	Тор
C304	Capacitor	10nF	50V	X7R	0805	Тор
C305	Capacitor	10nF	50V	X7R	0805	Тор
C306	Capacitor	10nF	50V	X7R	0805	Тор
C307	Capacitor	10nF	50V	X7R	0805	Тор
C308	Capacitor	10nF	50V	X7R	0805	Тор
C309	Capacitor	10nF	50V	X7R	0805	Тор
C310	Capacitor	10nF	50V	X7R	0805	Тор
C311	Capacitor	4.7uF	50V	X7R	1206	Bottom
C401	Capacitor	100nF	50V	X7R	0805	Тор
C402	Capacitor	10nF	50V	X7R	0805	Тор
C403	Capacitor	1nF	50V	X7R	0805	Тор
C404	Capacitor	100nF	50V	X7R	0805	Тор

C405	Capacitor	1nF	50V	X7R	0805	Bottom
C406	Capacitor	1nF	50V	X7R	0805	Bottom
C407	Capacitor	1nF	50V	X7R	0805	Bottom
C408	Capacitor	10nF	50V	X7R	0805	Top
C409	Сарасноі	Not placed	30 V	AIN	0805	Тор
C410	Capacitor	10nF	50V	X7R	0805	Тор
C411		10nF	50V	X7R	0805	Bottom
	Capacitor		307	AIK		
C501 C502	Compoiten	Not placed	F0\/	VZD	0805	Top
	Capacitor	10nF	50V	X7R	0805	Bottom
C503	Capacitor	100nF	50V	X7R	0805	Тор
C504	Capacitor	100nF	50V	X7R	0805	Тор
C505	Capacitor	100nF	50V	X7R	0805	Тор
C506	Capacitor	100nF	50V	X7R	0805	Top
C507	Capacitor	10nF	50V	X7R	0805	Тор
C508	Capacitor	10nF	50V	X7R	0805	Тор
C509	Capacitor	10nF	50V	X7R	0805	Тор
C510	Capacitor	10nF	50V	X7R	0805	Тор
C511	Capacitor	10nF	50V	X7R	0805	Тор
C512	Capacitor	10nF	50V	X7R	0805	Тор
C513	Capacitor	10nF	50V	X7R	0805	Тор
C514	Capacitor	10nF	50V	X7R	0805	Тор
C515	Capacitor	100nF	50V	X7R	0805	Тор
C516	Capacitor	10nF	50V	X7R	0805	Тор
C517	Capacitor	10nF	50V	X7R	0805	Тор
C518	Capacitor	10nF	50V	X7R	0805	Bottom
C519	Capacitor	10nF	50V	X7R	0805	Тор
C520	Capacitor	10nF	50V	X7R	0805	Тор
C521	Capacitor	10nF	50V	X7R	0805	Тор
C522	Capacitor	10nF	50V	X7R	0805	Тор
C523	Capacitor	10nF	50V	X7R	0805	Bottom
C601	Capacitor	1uF	50V	X7R	0805	Bottom
C602	Capacitor	1uF	50V	X7R	0805	Тор
C603	Capacitor	1uF	50V	X7R	0805	Тор
C604	Capacitor	1uF	50V	X7R	0805	Bottom
C605	Capacitor	1uF	50V	X7R	0805	Top
C606	Capacitor	4.7uF	25V	X7R	0805	Тор
C607	Capacitor	1uF	50V	X7R	0805	Тор
C608	Capacitoi	Not placed	30 V	AIIX	0805	Тор
C609		Not placed			0805	Тор
C610		Not placed			0805	Тор
C611		Not placed			0805	Тор
C612		Not placed			0805	Тор
C613		Not placed			0805	Тор
	Compoiten		F0\/	VZD		
C614	Capacitor	10nF	50V	X7R	0805	Bottom
C615	Capacitor	10nF	50V	X7R	0805	Bottom
D1	Cob -441 D'1 -	Not placed	40\/	4.0	DO-214AB	Top
D101	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Top
D102	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Bottom
D103	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Тор
D104	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Bottom
D105	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Bottom
D106	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Тор
D107	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Тор
D201	Zener Diode	BZX84C4V7	0.3W		SOT-23	Тор
D202	Diode	LL4148	100V		SOD-123	Bottom
D203	Diode	LL4148	100V		SOD-123	Bottom
D204	Diode	LL4148	100V		SOD-123	Bottom
D205		Not placed			SOD-123	Тор
D206	Zener Diode	BZX84C4V7	0.3W		SOT-23	Bottom
D301		Not placed			0805	Bottom
D302		Not placed			0805	Bottom
D303		Not placed			0805	Bottom
D304		Not placed			0805	Bottom
D305		Not placed			0805	Bottom
D306		Not placed			0805	Bottom
D307		Not placed			0805	Bottom
D308		Not placed			0805	Bottom
D309		Not placed			0805	Bottom
			_			

D310		Not placed			0805	Bottom
D310 D401	Dual Series	BAV99	100V		SOT-23	Bottom
D402	Diode	LL4148	100V		SOD-123	Top
D601	Diode	LL4148	100V		SOD-123	Тор
D602	Diode	LL4148	100V		SOD-123	Тор
J1	Female Header, 3-Pin,				100" pich	Тор
J201	Pin Header, 6-Pin				100" pich	Bottom
J501	Connector, 6-Pin				MTA100 6p	Bottom
J502	Connector, 4-Pin				MTA100 4p	Bottom
J503	Connector, 12-Pin				MTA100 12p	Bottom
J504	Jack Straight				SMA	Top
J505	Jack Straight				SMA	Тор
J506	Connector, 8-Pin				MTA100 8p	Тор
J507	Connector, 5-Pin				MTA100 5p	Bottom
J508		Not placed			100" pich	Тор
J509	Connector, 12-Pin,				MTA100 12p	Top
J510		Not placed			100" pich	Top
J511		Not placed			100" pich	Bottom
J516	Connector, 2-Pin				MTA100 2p	Top
J517	Female Header, 8-Pin				100" pich	Тор
J518	Female Header, 10-Pin				100" pich	Top
L201	Inductor	22uH		100mA	0805	Тор
L301	Inductor	22uH		100mA	0805	Тор
L302	Inductor	22uH		100mA	0805	Тор
L303	Inductor	22uH		100mA	0805	Тор
L304	Inductor	22uH		100mA	0805	Top
L305	Inductor	22uH		100mA	0805	Тор
L306	Inductor	22uH		100mA	0805	Тор
L307	Inductor	22uH		100mA	0805	Тор
L308	Inductor	22uH		100mA	0805	Тор
L309	Inductor	22uH		100mA	0805	Тор
L310	Inductor	22uH		100mA	0805	Тор
L401	Inductor	22uH		100mA	0805	Bottom
L402		Not placed			0805	Bottom
L501	Inductor	22uH		100mA	0805	Bottom
Q301	Dual Transistor PNP	DDA114YU	50V		SOT-363	Тор
Q302	Dual Transistor PNP	DDA114YU	50V		SOT-363	Тор
Q303	Dual Transistor NPN	DDC114YU	50V		SOT-363	Top
Q304	Dual Transistor NPN	DDC114YU	50V		SOT-363	Top
Q305	Dual Transistor PNP	DDA114YU	50V		SOT-363	Top
Q306	Dual Transistor PNP	DDA114YU	50V		SOT-363	Top
Q307	Dual Transistor NPN	DDC114YU	50V		SOT-363	Top
Q308	Dual Transistor NPN	DDC114YU	50V		SOT-363	Top
Q309	Dual Transistor PNP	DDA114YU	50V		SOT-363	Top
Q310	Dual Transistor NPN	DDC114YU	50V		SOT-363	Top
Q401	Dual Transistor PNP	DDA114YU	50V		SOT-363	Top
Q402	Duel Translat AIDM	Not placed	501/		SOT-363	Top
Q403	Dual Transistor NPN	DDC114YU	50V		SOT-363	Top
Q404	NIDNI Transfere	Not placed	F0\/		SOT-363	Top
Q501	NPN Transistor	BC847	50V		SOT-23	Bottom
Q601	NPN Transistor	BC847	50V		SOT-23	Top
R101	Resistor	220k	1/8W		0805	Top
R102	Resistor	3.3k	1/8W		0805	Top
R103	Resistor	47k	1/8W		0805	Top
R104	Resistor	10k	1/8W		0805	Top
R105	Resistor	1k	1/8W		0805	Top
R106	Resistor	1k	1/8W		0805	Top
R107	Resistor	3.3k	1/8W 1/8W		0805 0805	Top
R108 R109	Resistor Resistor	1k 1k	1/8W	1%	0805 0805	Top Top
R109	Resistor	3.3k	1/8W	1%	0805	Тор
R201	Resistor	3.3K 10k	1/8W	l 70	0805	Тор
R201 R202	Resistor	10k	1/8W		0805	Bottom
R202 R203	Resistor	4.7k	1/8W		0805	Top
R203	Resistor	330	1/8W		0805	Тор
R204 R205	Resistor	10k	1/8W		0805	Тор
R205	Resistor Array	330	4 x 1/16W		1206	Тор
R207	Resistor Array	330	4 x 1/16W		1206	Bottom
NZUI	ivesisioi Allay	330	→ ∧ 1/10VV		1200	וווטווטם

R208		Not placed			0805	Bottom
R209	Resistor	10k	1/8W		0805	Top
R210	Resistor	10k	1/8W		0805	Тор
R211	Resistor	10k	1/8W		0805	Тор
R212	110010101	Not placed	1,011		0805	Bottom
R213		Not placed			0805	Bottom
R214		Not placed			0805	Top
R215	Resistor Array	330	4 x 1/16W		1206	Тор
R216	1100.01017.1110.	Not placed	1 / 1, 1011		0805	Bottom
R217		Not placed			0805	Bottom
R218		Not placed			0805	Тор
R219	Resistor	4.7k	1/8W	1%	0805	Тор
R220	Resistor	330	1/8W		0805	Тор
R221	Resistor	330	1/8W		0805	Тор
R222	Resistor	330	1/8W		0805	Тор
R223	Resistor	2k	1/8W	1%	0805	Тор
R224	Resistor	100	1/8W		0805	Bottom
R225		Not placed			0805	Top
R226	Resistor	100	1/8W		0805	Bottom
R227	Resistor	1k	1/8W		0805	Тор
R228	Resistor	47k	1/8W		0805	Top
R301		Not placed			0805	Тор
R302		Not placed			0805	Top
R303		Not placed			0805	Top
R304		Not placed			0805	Тор
R305		Not placed			0805	Top
R306		Not placed			0805	Top
R307		Not placed			0805	Тор
R308		Not placed			0805	Тор
R309		Not placed			0805	Тор
R310		Not placed			0805	Тор
R401	Resistor	100k	1/8W		0805	Тор
R402	Resistor	47	1/8W		0805	Тор
R403	Resistor	47	1/8W		0805	Тор
R404	Resistor	47	1/8W		0805	Top
R405	Resistor	10k	1/8W		0805	Top
R407	Resistor	220k	1/8W		0805	Тор
R408	Resistor	1k	1/8W		0805	Bottom
R409	Resistor	2k	1/8W		0805	Тор
R410	Resistor	2k	1/8W		0805	Тор
R411	Resistor	2k	1/8W		0805	Тор
R412	Resistor	2k	1/8W		0805	Bottom
R413	Resistor	47	1/8W		0805	Тор
R414	Resistor	47	1/8W		0805	Тор
R415	Resistor	510	1/4W		1206	Bottom
R501	Resistor	1k	1/8W		0805	Bottom
R502	5	Not placed			0805	Тор
R503	Resistor	10k	1/8W		0805	Bottom
R504	Resistor	2k	1/8W		0805	Bottom
R505	Resistor	2k	1/8W		0805	Bottom
R506	Resistor	220	1/4W		1206	Тор
R507	Resistor	2k	1/8W		0805	Bottom
R508	Resistor	2k	1/8W		0805	Bottom
R509	Resistor	2k	1/8W		0805	Bottom
R510	Resistor	220	1/4W		1206	Тор
R511	Resistor	2k	1/8W		0805	Bottom
R512	Resistor	2k	1/8W		0805	Bottom
R513	Resistor	2k	1/8W		0805	Bottom
R514	Resistor	220	1/4W		1206	Top
R515	Resistor	2k	1/8W		0805	Bottom
R516	Resistor	2k	1/8W		0805	Bottom
R517	Resistor	2k	1/8W		0805	Bottom
R518	Resistor	2k	1/8W		0805	Bottom
R519	Resistor	2k	1/8W		0805	Bottom
R520	Resistor	2k	1/8W	40/	0805	Bottom
R521	Resistor	10k	1/8W	1%	0805	Bottom
R522	Resistor	1k	1/8W	1%	0805	Bottom
R523	Resistor	1k	1/8W	1%	0805	Bottom

R524	Resistor	2k	1/8W	1%	0805	Bottom
R601a	110313101	Not placed	1/000	1 70	0805	Bottom
R601b	Resistor	0	1/8W		0805	Bottom
R602a	IVESISIOI	Not placed	1/000		0805	Bottom
R602b	Resistor	0	1/8W		0805	Bottom
R603a	Resistor	1k	1/8W		0805	Top
R603b	RESISIUI	Not placed	1/000		0805	Тор
R604	Resistor	150	1/8W		0805	Тор
R605		150 1k	1/8W		0805	Тор
R605	Resistor Resistor	10k	1/8W		0805	Тор
R607	Resisioi		1/000		0805	
R607		Not placed			0805	Bottom
		Not placed				Bottom
R609		Not placed			0805	Bottom
R610		Not placed			0805	Bottom
R611		Not placed			0805	Bottom
R612		Not placed			0805	Bottom
R613		Not placed			0805	Тор
R614		Not placed			0805	Тор
R615		Not placed			0805	Тор
R616		Not placed			0805	Тор
R617		Not placed			0805	Тор
R618		Not placed			0805	Тор
R619	Resistor	330	1/8W		0805	Тор
R620	Resistor	330	1/8W		0805	Тор
TP201	Test Point				Keystone 5006	Bottom
U1	Microcontroller	MCP120T-475			SOT-23	Top
U101	Monostable	CD4047			SO14	Top
U102	Voltage Regulator	LM317MDT			TO-252	Тор
U201	D-Type Transparent	74HC573			TSSOP-20	Top
U202	D-Type Transparent	74HC573			TSSOP-20	Тор
U203	D-Type Transparent	74HC573			TSSOP-20	Тор
U204	D-Type Transparent	74HC573			TSSOP-20	Тор
U205	Digital Signal Controller	dsPIC30F6014A			TQFP-80 12x12mm	Тор
U206		Not placed			SOT-353	Тор
U207		Not placed			SO8- Wide	Тор
U208	Adjustable CMOS LDO	TC1187			SOT-23-5	Тор
	Dual D-Type Positive					•
U402	Hex Inverter IC	74AC04			SO14	Тор
U501	8-Channel Analog	74HC4051			SO16	Тор
U502		Not placed			SO16	Тор
U503	8-Channel Analog	74HC4051			SO16	Тор
U601	Dual EIA-232 Driver	MAX232D			SO16	Тор
	Dual Ell (202 Dilvei					
U602	Buzzer	PK21N30PQ	12V		Ø24mm	Bottom

Int Board A UNIT

Designator	Description	Value	Volts/Wats	Comment	Case/Package	Layer
C1	Capacitor	2.2nF	50V	X7R	0805	Bottom
C2	Capacitor	2.2nF	50V	X7R	0805	Bottom
C3	Capacitor	1uF	50V	X7R	0805	Bottom
C4	Capacitor	1uF	50V	X7R	0805	Bottom
C5	Capacitor	2.2nF	50V	X7R	0805	Bottom
C6	Capacitor	2.2nF	50V	X7R	0805	Bottom
C7	Capacitor	1uF	50V	X7R	0805	Bottom
C8	Capacitor	100nF	50V	X7R	0805	Bottom
C9	Capacitor	1uF	50V	X7R	0805	Bottom
C10	Capacitor	1uF	50V	X7R	0805	Bottom
C11	Capacitor	10nF	50V	X7R	0805	Bottom
C12	Capacitor	10nF	50V	X7R	0805	Bottom
C13	Capacitor	100nF	50V	X7R	0805	Bottom
C14	Capacitor	100nF	50V	X7R	0805	Bottom
C15	Capacitor	100nF	50V	X7R	0805	Bottom
C16	Capacitor	100nF	50V	X7R	0805	Bottom
C17	Capacitor	10nF	50V	X7R	0805	Тор
C18	Capacitor	10nF	50V	X7R	0805	Top
C19	Capacitor	10nF	50V	X7R	0805	Тор
C20	Capacitor	10nF	50V	X7R	0805	Тор

C21	Capacitor	10nF	50V	X7R	0805	Bottom
C22	Capacitor	10nF	50V	X7R	0805	Bottom
C23	Capacitor	100nF	50V	X7R	0805	Bottom
C24	Capacitor	10nF	50V	X7R	0805	Bottom
C25	Capacitor	10nF	50V	X7R	0805	Bottom
C26	Capacitor	10nF	50V	X7R	0805	Bottom
CON1	Connector D-Sub, 15p			Right Angle		Тор
CON2	RCA Jack Mono				Keystone 901	Тор
CON3	Header	1x10		Right Angle	100" pich	Тор
CON4	RCA Jack Mono				Keystone 901	Тор
CON5	Header	1x8		Right Angle	100" pich	Тор
D1	Zener Diode	BZX84C12	0.25W		SOT-23	Bottom
D2	Zener Diode	BZX84C4V7	0.3W		SOT-23	Bottom
D3	Zener Diode	BZX84C4V7	0.3W		SOT-23	Bottom
D4	Zener Diode	BZX84C4V7	0.3W		SOT-23	Bottom
D5	Zener Diode	BZX84C4V7	0.3W		SOT-23	Bottom
D6	Diode	LL4148	100V		SOD-123	Bottom
D7	Zener Diode	BZX84C12	0.25W		SOT-23	Bottom
D8	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Bottom
K1	Relay	TQ2-12V	12V		TQ2	Тор
L1	Inductor	22uH		100mA	0805	Bottom
L2	Inductor	22uH		100mA	0805	Bottom
L3	Inductor	22uH		100mA	0805	Bottom
L4	Inductor	22uH		100mA	0805	Bottom
L5	Inductor	22uH		100mA	0805	Bottom
L6	Inductor	22uH		100mA	0805	Bottom
Q1	MOSFET N-CH	BSS138	50V		SOT-23	Bottom
Q2	MOSFET N-CH	BSS138	50V		SOT-23	Bottom
Q3	MOSFET N-CH	BSS138	50V		SOT-23	Тор
Q4	MOSFET N-CH	BSS138	50V		SOT-23	Bottom
R1	Resistor	4.7k	1/8W		0805	Bottom
R2	Resistor	10k	1/8W		0805	Bottom
R3	Resistor	10k	1/8W		0805	Bottom
R4	Resistor	1k	1/8W		0805	Bottom
R5	Resistor	10k	1/8W		0805	Bottom
R6	Resistor	10k	1/8W	1%	0805	Bottom
R7	Resistor	10k	1/8W	1%	0805	Bottom
R8	Resistor	4.7k	1/8W		0805	Тор
R9	Resistor	4.7k	1/8W		0805	Тор
R10	Resistor	4.7k	1/8W		0805	Тор
R11	Resistor	4.7k	1/8W		0805	Тор
R12	Resistor	100k	1/8W		0805	Top
R13	Resistor	100k	1/8W		0805	Тор
R14	Resistor	100k	1/8W		0805	Тор
R15	Resistor	100k	1/8W		0805	Тор
R16a	Resistor	1k	1/4W		1206	Тор
R16b	5	Not placed	4 (014)		0805	Top
R17	Resistor	1k	1/8W		0805	Тор
R18	Resistor	4.7k	1/8W		0805	Bottom
R19	Resistor	10k	1/8W		0805	Bottom
R20	Resistor	1k	1/8W		0805	Bottom
R21	Resistor	39	1/8W		0805	Bottom
R22	Resistor	39	1/8W		0805	Bottom
R23	Resistor	1k	1/8W		0805	Bottom
R24	Resistor	4.7k	1/8W		0805	Тор
R25	Resistor	10k	1/8W		0805	Bottom
R26	Resistor	10k	1/8W		0805	Тор
R27	Resistor	4.7k	1/8W		0805	Bottom
U1	Quad buffer/line driver	74HC125			SO14	Тор
U2	Dual EIA-232 Driver	MAX232D			SO16	Тор
U3	Exclusive OR IC	74HC86			SO14	Тор

Int Board B UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
C1	Capacitor	100nF	50V	X7R	0805	Bottom
C2	Capacitor	100nF	50V	X7R	0805	Bottom
C3	Capacitor	1uF	25V	X7R	0805	Bottom
C4	Capacitor	1uF	25V	X7R	0805	Bottom
C5	Capacitor	1uF	25V	X7R	0805	Bottom
C6	Capacitor	2.2nF	50V	X7R	0805	Bottom
C7	Capacitor	2.2nF	50V	X7R	0805	Bottom
C8	Capacitor	1uF	25V	X7R	0805	Bottom
C9	Capacitor	1uF	25V	X7R	0805	Bottom
C10	Capacitor	1uF	25V	X7R	0805	Bottom
C11	Capacitor	10nF	50V	X7R	0805	Bottom
C12	Capacitor	10nF	50V	X7R	0805	Bottom
C13	Electrol. Capacitor	100uF	16V	RK	Ø5mm x 11mm	Тор
C14		Not placed			0805	Bottom
C15 C16		Not placed			0805 0805	Bottom Bottom
C16		Not placed Not placed			0805	Bottom
C17		Not placed			0805	Bottom
C19		Not placed			0805	Bottom
C20		Not placed	+		0805	Top
C21		Not placed			0805	Тор
C22		Not placed	 		0805	Тор
C23		Not placed			0805	Bottom
C24		Not placed			0805	Bottom
C25		Not placed			Ø5mm x 11mm	Top
C26		Not placed			0805	Тор
C27		Not placed			0805	Bottom
C28		Not placed			0805	Bottom
C29		Not placed			0805	Bottom
C30		Not placed			0805	Bottom
C31		Not placed			0805	Bottom
C32		Not placed			0805	Bottom
C33		Not placed			0805	Bottom
C34		Not placed			Ø5mm x 11mm	Тор
CON1	Connector D-Sub, 9p			Right Angle		Тор
CON2	Header	1x6		Right Angle	100" pich	Тор
CON3	Header	1x8		Right Angle	100" pich	Тор
CON4		Not placed				Тор
CON5		Not placed				Тор
D1	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Bottom
D2	Schottky Diode	1N5819HW-7-F	40V	1A	SOD-123	Bottom
D3	Zener Diode	BZX84C4V7	0.3W		SOT-23	Тор
L1	Inductor	22uH		100mA	0805	Bottom
L2	Inductor	22uH		100mA	0805	Bottom
L3	Inductor	22uH		100mA	0805	Bottom
L4 L5	Inductor	22uH		100mA	0805 0805	Bottom
L5 L6		Not placed Not placed	 		0805	Bottom Bottom
L6 L7		Not placed			0805	Bottom
Q1	PNP Transistor	BC857	50V		SOT-23	Bottom
Q2	MOSFET N-CH	BSS138	50V		SOT-23	Top
R1	Resistor	10k	1/8W		0805	Bottom
R2	Resistor	1k	1/8W		0805	Bottom
R3	Resistor	10k	1/8W		0805	Bottom
R4	Resistor	3.3k	1/8W		0805	Bottom
R5	Resistor	3.3k	1/8W		0805	Bottom
R6	Resistor	3.3k	1/8W		0805	Тор
R7		Not placed			0805	Bottom
R8		Not placed			0805	Bottom
R9		Not placed			0805	Тор
R10		Not placed			0603	Bottom
R11		Not placed			0603	Bottom
R12		Not placed			0805	Тор
R13	<u> </u>	Not placed			0603	Bottom

R14		Not placed	0603	Bottom
R15		Not placed	0805	Тор
R16		Not placed	0805	Тор
R17		Not placed	0805	Bottom
R18		Not placed	0805	Тор
R19		Not placed	0805	Bottom
R20		Not placed	0805	Bottom
R21		Not placed	0805	Bottom
R22		Not placed	0805	Bottom
R23		Not placed	0805	Bottom
R24		Not placed	0805	Bottom
R25		Not placed	0805	Bottom
U1	Dual EIA-232 Driver	MAX232D	SO16	Тор
U2		Not placed	SOT-23-6	Bottom
U3		Not placed	SOT-223	Тор
U4		Not placed	SO14	Bottom
U5		Not placed	SSOP28	Bottom

ATU Interface UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
C1	Capacitor	100nF	50V	X7R	0805	Bottom
C2	Electrol. Capacitor	47uF	35V		Ø6.3mm x 11mm	Top
C3	Capacitor	4.7uF	25V	X7R	0805	Bottom
C4	Capacitor	10nF	50V	X7R	0805	Bottom
C5	Capacitor	22pF	50V	C0G	0805	Bottom
C6	Capacitor	22pF	50V	C0G	0805	Bottom
C7	Capacitor	220pF	50V	C0G	0805	Bottom
C8	Capacitor	22pF	50V	C0G	0805	Bottom
C9	Capacitor	15pF	50V	C0G	0805	Bottom
C10	Capacitor	1uF	50V	X7R	0805	Bottom
C11	Capacitor	470pF	50V	C0G	0805	Bottom
C12	Capacitor	220pF	50V	C0G	0805	Bottom
C13	Capacitor	10nF	50V	X7R	0805	Top
C14	Capacitor	47nF	50V	X7R	0805	Top
C15	Capacitor	10nF	50V	X7R	0805	Bottom
C16a	Capacitor	33nF	50V	X7R	0805	Тор
C16b	Capacitor	33nF	50V	X7R	0805	Тор
C17	Electrol. Capacitor	47uF	35V		Ø6.3mm x 11mm	Тор
C18	Capacitor	100nF	50V	X7R	0805	Bottom
C19	Capacitor	100nF	50V	X7R	0805	Bottom
C20	Electrol. Capacitor	47uF	35V	7011	Ø6.3mm x 11mm	Top
C21	Capacitor	4.7uF	50V	X7R	1206	Bottom
C22	Capacitor	4.7uF	50V	X7R	1206	Bottom
CON1	Header	1x8	001	7(11)	2.54mm pich	Bottom
CON2	Header	1x10	+		2.54mm pich	Bottom
D1	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D2	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
JP1	Resistor	10k	1/8W		0805	Bottom
L1	Inductor	150uH	., 511	50mA	1210	Тор
L2	Inductor	100uH		50mA	1210	Тор
L3	Inductor	10uH		50mA	1210	Bottom
R1	Resistor	4.7	1/8W	0011111	0805	Bottom
R2	Resistor	22.6k	1/8W	1%	0805	Bottom
R3	Resistor	5.11k	1/8W	1%	0805	Bottom
R4	Resistor	18.7k	1/8W	1%	0805	Bottom
R5	Resistor	2.74k	1/8W	1%	0805	Bottom
R6	Resistor	56.2k	1/8W	1%	0805	Bottom
R7	Resistor	1k	1/8W	1 /0	0805	Bottom
R8	Resistor	1.78k	1/8W	1%	0805	Bottom
R9	Resistor	10	1/8W	1 /0	0805	Bottom
R10	Resistor	3.9k	1/8W		0805	Bottom
R11	Resistor	4.7k	1/8W		0805	Bottom
R12	Resistor	13k	1/8W		0805	Bottom
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R14	Resistor	24	1/8W		0805	Bottom
R15	Resistor	100	1/8W		0805	Тор
R16	Resistor	10k	1/8W		0805	Bottom
R17	Resistor	10k	1/8W		0805	Bottom
R18	Resistor	1k	1/8W		0805	Bottom
R19	Resistor	301k	1/8W	1%	0805	Bottom
R20	Carbon Film Resistor	68	2W		AXIAL-Ø5.5 x 16mm	Тор
U1	FSK Power Line Transceiver	ST7540			HTSSOP28	Тор
U2	Current Protection Load Switch	FPF2700MX			SO8	Тор
U3	Voltage Regulator	78M12		500mA	TO-252	Тор
Y1	Quartz Crystal	16.000 MHz			HC-49	Тор

DC POWER BOARD UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
BC1	Ferrite Bead	BLM21AG601SH1		600mA	0805	Bottom
BC2	Ferrite Bead	BLM21AG601SH1		600mA	0805	Bottom
BC3	Ferrite Bead	BLM21AG601SH1		600mA	0805	Bottom
BC4	Ferrite Bead	BLM21AG601SH1		600mA	0805	Bottom
BD1	Bridge Rectifier	GBJ3506	600V		GBJ	Top
C1	Capacitor	10nF	275VAC	X1	13x5x10	Top
C2	Capacitor	100pF	400VAC	Y1	disc Ø6.5mm	Тор
C3	Capacitor	100pF	400VAC	Y1	disc Ø6.5mm	Top
C4	Polyester Capacitor	2.2uF	275VAC	X2	32 x 20 x 33mm	Top
C5	Capacitor	100nF	50V	X7R	0805	Bottom
C7	Capacitor	3.3nF	400VAC	Y1	disc Ø11mm	Тор
C8	Capacitor	3.3nF	400VAC	Y1	disc Ø11mm	Тор
C9	Polyester Capacitor	2.2uF	275VAC	X2	32 x 20 x 33mm	Тор
C10	Polyester Capacitor	2.2uF	400V	MKS4	11 x 21 x 31.5mm	Тор
C11	Capacitor	1nF	400VAC	Y1	disc Ø8mm	Тор
C12	Polyester Capacitor	2.2uF	400V	MKS4	11 x 21 x 31.5mm	Top
C13	Capacitor	100nF	50V	X7R	0805	Bottom
C14	Capacitor	680pF	3kV	Y5P	disc Ø7.5mm	Тор
C15	Capacitor	1nF	50V	X7R	0805	Bottom
C16	Electrol. Capacitor	470uF	400V	Low ESR	Ø30mm x 47mm	Тор
C17	Electrol. Capacitor	470uF	400V	Low ESR	Ø30mm x 47mm	Тор
C18	Electrol. Capacitor	470uF	400V	Low ESR	Ø30mm x 47mm	Тор
C21	Polyester Capacitor	100nF	630V	MKS4	6 x 12.5 x 18mm	Тор
C22	Electrol. Capacitor	47uF	25V	RK	Ø5mm x 11mm	Тор
C23	Capacitor	1uF	50V	X7R	0805	Bottom
C24	Capacitor	1uF	50V	X7R	0805	Bottom
C25	Capacitor	100nF	50V	X7R	0805	Bottom
C26	Capacitor	100nF	50V	X7R	0805	Bottom
C27	Capacitor	2.2nF	1kV	Y5P	disc Ø7.5mm	Тор
C28	Capacitor	100nF	50V	X7R	0805	Bottom
C29	Electrol. Capacitor	47uF	25V	RK	Ø5mm x 11mm	Тор
C30	Electrol. Capacitor	330uF	25V	Low ESR	Ø8mm x 12mm	Тор
C31	Electrol. Capacitor	330uF	25V	Low ESR	Ø8mm x 12mm	Тор
C32	Capacitor	10nF	50V	X7R	0805	Bottom
C33	Capacitor	10nF	50V	X7R	0805	Bottom
C34	Capacitor	100nF	50V	X7R	0805	Bottom
C35	Capacitor	1uF	50V	X7R	0805	Bottom
C36	Capacitor	3.3nF	400VAC	Y1	disc Ø11mm	Тор
C37	Electrol. Capacitor	220uF	35V	Low ESR	Ø8mm x 12mm	Тор
C38	Capacitor	100nF	50V	X7R	0805	Bottom
C39	Capacitor	2.7nF	50V	X7R	0805	Bottom
C40	Capacitor	33nF	50V	X7R	0805	Bottom
C41	Capacitor	100nF	50V	X7R	0805	Bottom
C42	Electrol. Capacitor	470uF	35V	Low ESR	Ø10mm x 20mm	Тор
C43	Electrol. Capacitor	470uF	16V		Ø8mm x 12mm	Тор
C44	Capacitor	100nF	50V	X7R	0805	Bottom
C45	Electrol. Capacitor	470uF	16V	7011	Ø8mm x 12mm	Top
C46	Capacitor	100nF	50V	X7R	0805	Bottom
C53	Capacitor	100nF	50V	X7R	0805	Bottom

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C54	Capacitor	100nF	50V	X7R	0805	Bottom
C55	Capacitor	100nF	50V	X7R	0805	Bottom
C56	Capacitor	100nF	50V	X7R	0805	Bottom
C60	Capacitor	100nF	50V	X7R	0805	Bottom
C61	Capacitor	100nF	50V	X7R	0805	Bottom
	·			X7R		
<u>C63</u>	Capacitor	100nF	50V		0805	Bottom
C64	Capacitor	100nF	50V	X7R	0805	Bottom
C70	Polyester Capacitor	1uF	630V	MKS4	11 x 21 x 31.5mm	Тор
C71	Capacitor	1uF	50V	X7R	0805	Bottom
C72	Capacitor	1uF	50V	X7R	0805	Bottom
C73	Capacitor	100nF	50V	X7R	0805	Bottom
C74	Electrol, Capacitor	330uF	25V	Low ESR	Ø8mm x 12mm	Тор
C75	Capacitor	1uF	50V	X7R	0805	Bottom
C76	Electrol. Capacitor	10uF	35V	RK	Ø5mm x 11mm	Тор
C77	Capacitor	1uF	50V	X7R	0805	Bottom
C78	Polyester Multilayer	2.2uF	630V	TS02	30 x 16 x 26mm	Top
0.0	Capacitor		0001	. 001	00 X 10 X 2011111	. 96
C79	Polyester Multilayer	2.2uF	630V	TS02	30 x 16 x 26mm	Тор
019	Capacitor	Z.Zui	0307	1302	30 X 10 X 2011111	ТОР
C80	Capacitor	1nF	100V	X7R	1206	Bottom
C81	Capacitor	1nF	100V	X7R	1206	Bottom
C82	•	1nF	100V	X7R X7R	1206	
	Capacitor					Bottom
C83	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Top
C84	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C85	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Top
C86	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C87	Capacitor	1nF	100V	X7R	1206	Bottom
C88	Capacitor	100nF	200V	X7R	1206	Bottom
C89	Polyester Capacitor	470nF	100VDC	MKT	2824	Bottom
C93	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Top
C94	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C95	Capacitor	1nF	100V	X7R	1206	Bottom
C96	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C97	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Top
C98	Polyester Capacitor	470nF	100VDC	MKT	2824	Bottom
C99	Capacitor	100nF	200V	X7R	1206	Bottom
C101	Capacitor	100nF	50V	X7R	0805	Bottom
C102	Capacitor	100nF	50V	X7R	0805	Bottom
		100nF		X7R		
C214	Capacitor		50V		0805	Bottom
C215	Capacitor	100nF	50V	X7R	0805	Bottom
C216	Capacitor	10nF	50V	X7R	0805	Bottom
C217	Capacitor	10nF	50V	X7R	0805	Bottom
C218	Capacitor	10nF	50V	X7R	0805	Bottom
C219	Capacitor	10nF	50V	X7R	0805	Bottom
C220	Capacitor	10nF	50V	X7R	0805	Bottom
C222	Capacitor	10nF	50V	X7R	0805	Bottom
C224	Capacitor	100nF	50V	X7R	0805	Bottom
		100111	30 V	AIN		
CN4	Connector, 2-Pin	11.44.40	40017		MTA100 2p	Тор
D1	Diode	LL4148	100V		SOD-80	Bottom
D2	Schottky Diode	SS14	40V		DO-214AC	Bottom
D3	Ultrafast Rectifier Diode	STTH3006W	600V		DO-247	Top
D4	Rectifier Diode	1N5406	600V		DO-201AD	Тор
D5	Diode	BAS16	75V		SOT-23	Bottom
D6	Zener Diode	BZV55C6V2	500mW		SOD-80	Bottom
D7	Rectifier Diode	HER307	800V		DO-27	Top
D8	Ultrafast Diode		400V		DO-214AA	_
		UF3GB				Bottom
D9	Ultrafast Diode	UF3GB	400V		DO-214AA	Bottom
D10	Diode	BAS16	75V		SOT-23	Bottom
D11	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D12	Ultrafast Diode	UF3GB	400V		DO-214AA	Bottom
D13	Ultrafast Diode	UF3GB	400V		DO-214AA	Bottom
D14	Diode	BAS16	75V		SOT-23	Bottom
D15	Diode	BAS16	75V		SOT-23	Bottom
D16	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Top
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D17	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D18	Diode	BAS16	75V		SOT-23	Bottom
D19	Diode	BAS16	75V		SOT-23	Bottom
D20	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D21	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
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D22	Diode	BAS16	75V		SOT-23	Bottom
D23	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D24	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D25	Schottky Diode	SS14	40V		DO-214AC	Bottom
D26	Schottky Diode	SS14	40V		DO-214AC	Bottom
D27	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D28	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D29	DIODE ARRAY	STTH6003CW	300V		TO247-3L	Top
D30	DIODE ARRAY	STTH6003CW	300V		TO247-3L	Тор
	DIODE ARRAY					
D31		STTH6003CW	300V		TO247-3L	Top
D32	DIODE ARRAY	STTH6003CW	300V		TO247-3L	Тор
D208	Diode	LL4148	100V		SOD-80	Bottom
D209	Diode	LL4148	100V		SOD-80	Bottom
F1	Axial Lead Fuse	10A	250V	Fast Acting	5x20mm	Top
F2	Axial Lead Fuse	0.2A	250V	Fast Acting	5x20mm	Тор
J1A	Connector, 8-Pin	0.271	2001	1 dot / toting	MTA100 8p	Тор
	,					
J1B	Connector, 5-Pin				MTA100 5p	Тор
J2	Connector, 2-Pin				MTA100 2p	Тор
J3	QUICK-FIT Terminal				Keystone 1287	Top
J4	QUICK-FIT Terminal				Keystone 1287	Top
J5	QUICK-FIT Terminal				Keystone 1287	Тор
J6	QUICK-FIT Terminal				Keystone 1287	Тор
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J101	Connector, 3-Pin				MTA156 3p	Top
J102	Connector, 2-Pin				MTA100 2p	Тор
J200	Plug			<u> </u>		Top
J201	Plug					Тор
J204	Connector, 4-Pin				MTA100 4p	Тор
J205	Connector, 6-Pin				MTA100 6p	Тор
		DT224040	40\/			
K202	Relay	RT334012	12V		RT1	Тор
K203	Relay	RT334012	12V		RT1	Тор
L1	Choke Cumulative				ETD-39	Top
L2	Choke Cumulative				ETD-39	Top
L3	Power Inductor	68uH		1.5A	DBS135	Bottom
L4	Power Inductor	68uH		1.5A	DBS135	Bottom
L5	Inductor	22uH		370mA	1812	Bottom
L6	Inductor	22uH		370mA	1812	Bottom
L7	Inductor	22uH		370mA	1812	Bottom
L8	Inductor	2.2uH		410mA	1812	Bottom
L9	Inductor	22uH		370mA	1812	Bottom
L10	Inductor	22uH		370mA	1812	Bottom
L11	Inductor	22uH		370mA	1812	Bottom
L12	Inductor	22uH		370mA	1812	Bottom
L13	Inductor	22uH		370mA	1812	Bottom
L14	Choke	0.012mH			ETD-29	Top
L15	Output Choke	130uH			TOROID	Top
L16	Output Choke	130uH			TOROID	Top
L17	Output Choke	130uH			TOROID	
	 					Top
L18	Output Choke	130uH			TOROID	Тор
L19	Inductor	22uH		370mA	1812	Bottom
L20	Inductor	2.2uH		410mA	1812	Bottom
L21	Inductor	2.2uH		410mA	1812	Bottom
L101	Toroidal Coil	340uH		Ø0.9mm, 30 turns	TOROID 22.5x14x8.4	Тор
L203	Inductor	22uH		370mA	1812	Bottom
L203		22uH		370mA	1812	
	Inductor					Bottom
L205	Inductor	22uH		370mA	1812	Bottom
L206	Inductor	22uH		370mA	1812	Bottom
L209	Inductor	22uH		370mA	1812	Bottom
LF1	Toroidal Coil	3mH			TOROID	Top
LF2	Toroidal Coil	3mH			TOROID	Тор
LF3	Ferrite Coil	J 1		Ø2mm, 12.5 turns	Ferrite Ø8x31	Тор
		DOVEE 40	6017	SZIIIII, 12.5 WIIIS		
Q1	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q2	PNP Transistor	BCX52-16	60V		SOT89	Bottom
Q3	PNP Transistor	BCX52-16	60V		SOT89	Bottom
Q4	PNP Transistor	BCX52-16	60V		SOT89	Bottom
Q5	PNP Transistor	BCX52-16	60V		SOT89	Bottom
Q6	MOSFET N-CH	20N60C3			TO247	Top
Q7	MOSFET N-CH	20N60C3			TO247	Top
Q8	MOSFET N-CH	20N60C3			TO247	Тор
Q9	MOSFET N-CH	20N60C3		<u> </u>	TO247	Top
Q10	PNP Transistor	MMBT2907	60V		SOT-23	Bottom
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Q11	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q12	MOSFET N-CH	2N7002	60V		SOT-23	Bottom
Q13	MOSFET N-CH	FQA24N50			TO247-AD	Тор
Q14	MOSFET N-CH	FQA24N50			TO247-AD	Тор
Q15	MOSFET N-CH	FQA24N50			TO247-AD	Top
Q16	MOSFET N-CH	FQA24N50			TO247-AD	Тор
Q17	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q18	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q19	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q200	MOSFET N-CH	2N7002	60V		SOT-23	Bottom
R1	Metal Film Resistor	390k	1W		AXIAL-Ø2.5 x 6.5mm	Тор
R2	Resistor	47	1/4W	1%	1206	Bottom
R3	Resistor	0	1/4W		1206	Bottom
R4	Resistor	47	1/4W	1%	1206	Bottom
R5	Resistor	47	1/4W	1%	1206	Bottom
R6	Resistor	47	1/4W	1%	1206	Bottom
R7	Resistor	47	1/4W	1%	1206	Bottom
R8	Resistor	10	1/4W	. , , ,	1206	Bottom
R9	Resistor	10	1/4W		1206	Bottom
R10		10	1/4W		1206	
	Resistor					Bottom
R11	Resistor	10	1/4W	407	1206	Bottom
R12	Resistor	10k	1/8W	1%	0805	Bottom
R13	Resistor	10k	1/8W	1%	0805	Bottom
R14	Resistor	10k	1/8W	1%	0805	Bottom
R15	Resistor	10k	1/8W	1%	0805	Bottom
R16	Carbon Film Resistor	15R	2W		AXIAL-Ø5.5 x 16mm	Тор
R17	Resistor	16.5	1/8W	1%	0805	Bottom
R18	Resistor	16.5	1/8W	1%	0805	Bottom
R19	Resistor	1.2k	1/8W	1%	0805	Bottom
R20	Resistor	510	1/8W	1%	0805	Bottom
R21	Resistor	8.25k	1/8W	1%	0805	Bottom
R22	Resistor	100k	1/8W	1%	0805	Bottom
R23	Resistor	47	1/8W		0805	Bottom
R24	Resistor	270k	1/4W	1%	1206	Bottom
R25	Resistor	270k	1/4W	1%	1206	Bottom
R26	Resistor	270k	1/4W	1%	1206	Bottom
R27	Resistor	270k	1/4W	1%	1206	Bottom
R28	Resistor	390k	1/4W	1%	1206	Bottom
R29	Resistor	390k	1/4W	1%	1206	Bottom
R30	Resistor	390k	1/4W	1%	1206	Bottom
R31	Resistor	390k	1/4W	1%	1206	Bottom
R32	Resistor	22k	1/8W	1%	0805	Bottom
R33	Resistor	1.5	3/4W		2010	Bottom
R34	Metal Film Resistor	33k	3W		AXIAL-Ø5.5 x 16mm	Тор
R35	Resistor	12	3/4W		2010	Bottom
R36	Resistor	6.8	1/8W		0805	Bottom
R37	Resistor	8.2	1/4W		1206	Bottom
R38	Resistor	2.7k	1/8W	1%	0805	Bottom
R39	Resistor	24.9k	1/8W	1%	0805	Bottom
R40	Resistor	332k	1/4W	1%	1206	Bottom
R41	Resistor	332k	1/4W	1%	1206	Bottom
R42	Resistor	332k	1/4W	1%	1206	Bottom
R43	Resistor	332k	1/4W	1%	1206	Bottom
R44	Resistor	4.87k	1/8W	1%	0805	Bottom
R45						
1740	Resistor	1k	1/8W		0805	Bottom
	Resistor	1k		1%		
R46	Resistor Resistor	1k 2.4k	1/8W	1% 1%	0805	Bottom
R46 R47	Resistor Resistor Resistor	1k 2.4k 1k	1/8W 1/8W	1% 1% 1%	0805 0805	Bottom Bottom
R46 R47 R48	Resistor Resistor Resistor Resistor	1k 2.4k 1k 270	1/8W 1/8W 1/8W	1% 1% 1% 1%	0805 0805 0805	Bottom Bottom Bottom
R46 R47 R48 R49	Resistor Resistor Resistor Resistor Resistor	1k 2.4k 1k 270 100k	1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1%	0805 0805 0805 0805	Bottom Bottom Bottom Bottom
R46 R47 R48 R49 R50	Resistor Resistor Resistor Resistor Resistor Resistor Resistor	1k 2.4k 1k 270 100k 11k	1/8W 1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1%	0805 0805 0805 0805 0805	Bottom Bottom Bottom Bottom Bottom
R46 R47 R48 R49 R50 R51	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	1k 2.4k 1k 270 100k 11k 1k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W	1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 0805 1206	Bottom Bottom Bottom Bottom
R46 R47 R48 R49 R50	Resistor Resistor Resistor Resistor Resistor Resistor Resistor	1k 2.4k 1k 270 100k 11k	1/8W 1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1%	0805 0805 0805 0805 0805	Bottom Bottom Bottom Bottom Bottom
R46 R47 R48 R49 R50 R51	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	1k 2.4k 1k 270 100k 11k 1k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W	1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 0805 1206	Bottom Bottom Bottom Bottom Bottom Bottom Bottom
R46 R47 R48 R49 R50 R51 R52 R53	Resistor	1k 2.4k 1k 270 100k 11k 1k 11k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W	1% 1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 1206 0805	Bottom
R46 R47 R48 R49 R50 R51 R52 R53 R54	Resistor	1k 2.4k 1k 270 100k 11k 1k 11k 2.4k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W 1/4W 1/8W 1/8W	1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 1206 0805 0805	Bottom
R46 R47 R48 R49 R50 R51 R52 R53 R54	Resistor	1k 2.4k 1k 270 100k 11k 1k 24k 100 2.7k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W 1/4W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 1206 0805 0805 0805	Bottom
R46 R47 R48 R49 R50 R51 R52 R53 R54 R55	Resistor	1k 2.4k 1k 270 100k 11k 1k 24k 100 2.7k 330	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W 1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 1206 0805 0805 0805 0805	Bottom
R46 R47 R48 R49 R50 R51 R52 R53 R54 R55 R56	Resistor	1k 2.4k 1k 270 100k 11k 1k 24k 100 2.7k 330 1k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W 1/4W 1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 1206 0805 0805 0805 0805 0805	Bottom
R46 R47 R48 R49 R50 R51 R52 R53 R54 R55 R56 R57	Resistor	1k 2.4k 1k 270 100k 11k 1k 1k 2.4k 100 2.7k 330 1k 10k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1	0805 0805 0805 0805 0805 1206 0805 0805 0805 0805 0805 0805	Bottom
R46 R47 R48 R49 R50 R51 R52 R53 R54 R55 R56	Resistor	1k 2.4k 1k 270 100k 11k 1k 24k 100 2.7k 330 1k	1/8W 1/8W 1/8W 1/8W 1/8W 1/4W 1/4W 1/8W 1/8W 1/8W 1/8W	1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1% 1%	0805 0805 0805 0805 0805 1206 0805 0805 0805 0805 0805	Bottom

501	т		4/04/		1 4000	5
R61	Resistor	5.1	1/4W		1206	Bottom
R62	Resistor	5.1	1/4W		1206	Bottom
R63	Resistor	10k	1/8W	1%	0805	Bottom
R64	Resistor	10k	1/8W	1%	0805	Bottom
R65	Resistor	10k	1/8W	1%	0805	Bottom
R66	Resistor	10k	1/8W	1%	0805	Bottom
R67	Resistor	5.1	1/4W		1206	Bottom
R68	Resistor	5.1	1/4W		1206	Bottom
R69	Resistor	5.1	1/4W		1206	Bottom
R70	Resistor	390	3/4W		2010	Bottom
R71	Resistor	390	3/4W		2010	Bottom
R72	Resistor	390	3/4W		2010	Bottom
R73	Resistor	390	3/4W		2010	Bottom
R74	Resistor	1.2k	1/8W	1%	0805	Bottom
R75	Resistor	1.2k	1/8W	1%	0805	Bottom
R76	Resistor	1.2k	1/8W	1%	0805	Bottom
R77	Resistor	100	1/8W	1%	0805	Bottom
R78	Resistor	100	1/8W	1%	0805	Bottom
R79		220	3W	1 /0	AXIAL-Ø5.5 x 16mm	Top
R80	Metal Film Resistor		1/4W		1206	
	Resistor	5.1		40/		Bottom
R81	Resistor	100	1/8W	1%	0805	Bottom
R82	Resistor	100	1/8W	1%	0805	Bottom
R83	Resistor	22	3/4W		2010	Bottom
R84	Resistor	22	3/4W		2010	Bottom
R85	Resistor	22	3/4W		2010	Bottom
R86	Resistor	22	3/4W		2010	Bottom
R87	Metal Film Resistor	330	3W		AXIAL-Ø5.5 x 16mm	Top
R88	Resistor	22	3/4W		2010	Bottom
R89	Resistor	22	3/4W		2010	Bottom
R90	Metal Film Resistor	330	3W		AXIAL-Ø5.5 x 16mm	Top
R91	Resistor	22	3/4W		2010	Bottom
R92	Resistor	22	3/4W		2010	Bottom
R93	Metal Film Resistor	220	3W		AXIAL-Ø5.5 x 16mm	Тор
R201	Resistor	1k	1/8W	1%	0805	Bottom
R208	Resistor	4.7k	1/8W	1%	0805	Bottom
R210	Resistor	10k	1/8W	1%	0805	Bottom
R211	Resistor	10k	1/8W	1%	0805	Bottom
R212	Resistor	100	1/8W	1%	0805	Bottom
RTH1	Power Thermistor	SCK20150	1/000	4.5A	disc Ø21.5mm	Top
RTH2	Power Thermistor	SCK20150		4.5A	disc Ø21.5mm	Тор
RY1	Relav	RT334012	12V	4.5A	RT1	Тор
			1∠V		TO-92-3	
SRC1	Thyristor	BT169D		4.000		Top
T1	Current Transformer	58.6mH	 	1:200	UU-9.8-2S	Top
T2	Transformer	TIDAGO			B66208 Vert	Top
T3	Darlington Transistor	TIP122			TO220-3L	Top
T4	Gate Transformer				T1611	Top
T5	Gate Transformer				T1611	Top
T6	Output Transformer				ETD-39	Top
T7	Output Transformer				ETD-39	Top
T8	Current Transformer			1:100	UU-9.8-2S	Тор
U1	Shunt Regulator	TL431C			SOT-23	Bottom
U2	Integr. Off-line Switch	TOP244		·	TO-220-7C	Top
U3	Optocoupler	LTV817	35V		SMD4	Bottom
U4	Sistem Resetting IC	M51957			SO8	Bottom
U5	Shunt Regulator	TS431			SOT-23	Bottom
U6	Shunt Regulator	TS431			SOT-23	Bottom
U7	Step-Down Regulator	LM2575-5.0V			TO-220-5L	Тор
U8	Optocoupler	LTV817	35V		SMD4	Bottom
U9	MOSFET Driver	UCC27424			SO8	Bottom
U10	MOSFET Driver	UCC27424			SO8	Bottom
U200	AC-DC Power Supply	IRM-03-12	12VDC		IRM-03	Top
U201	Optocoupler	LTV817	35V		SMD4	Bottom
U202	Optocoupler	LTV817	35V		SMD4	Bottom
ZD1	Zener Diode	BZV55C62	500mW		SOD-80	Bottom
ZVR1	Varistor	ERZ-V20D431	275VAC		VARISTOR_20mm	Top
∠V\\ I	vaiiblui	LNZ-720D431	ZIOVAU		VARIOTOR_ZUIIIII	ιυμ

PFC POWER BOARD UNIT

Designator	Description	Value	Volts/Watts	Comment	Case/Pacage	Layer
BC1	Ferrite Bead	BLM21PG600		600mA	0805	Bottom
BC2	Ferrite Bead	BLM21PG600		600mA	0805	Bottom
BC3	Ferrite Bead	BLM21PG600		600mA	0805	Bottom
BC4	Ferrite Bead	BLM21PG600		600mA	0805	Bottom
C1	Capacitor	470pF	400VAC	Y1	disc Ø6.5mm	Тор
C2	Capacitor	470pF	400VAC	Y1	disc Ø6.5mm	Тор
C3	Capacitor	1uF	50V	X7R	0805	Bottom
C4	Electrol. Capacitor	150uF	450V	SK	Ø25mm x 30mm	Тор
C5	Polyester Capacitor	2.2uF	630V	MKS4	31.5 x 17 x 27.5mm	Тор
C6	Polyester Capacitor	2.2uF	630V	MKS4	31.5 x 17 x 27.5mm	Тор
C7	Capacitor	1uF	50V	X7R	0805	Bottom
C8	Capacitor	2.2uF	400V	Y1	disc Ø6.5mm	Тор
C9	Capacitor	2.2uF	400V	Y1	disc Ø6.5mm	Тор
C10	Electrol. Capacitor	330uF	25V	Low ESR	Ø8mm x 12mm	Тор
C11	Polyester Capacitor	1uF	630V	MKS4	11 x 21 x 31.5mm	Тор
C12	Electrol. Capacitor	330uF	35V	Low ESR	Ø10mm x 12mm	Тор
C13	Capacitor	1uF	50V	X7R	0805	Bottom
C14	Capacitor	1uF	50V	X7R	0805	Bottom
C15	Capacitor	100nF	50V	X7R	0805	Bottom
C16		NC			13 x 5 x 10mm	Тор
C17	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C18		NC			Ø12.5mm x 25mm	Тор
C19	Capacitor	100nF	100V	X7R	1206	Bottom
C21	Capacitor	1nF	100V	X7R	1206	Bottom
C22	Capacitor	1nF	100V	X7R	1206	Bottom
C23	Capacitor	1nF	100V	X7R	1206	Bottom
C24	Capacitor	1nF	100V	X7R	1206	Bottom
C25	Capacitor	1nF	100V	X7R	1206	Bottom
C26	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C27	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C28	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C29		NC			Ø12.5mm x 25mm	Тор
C30	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C31	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
C32		NC			Ø12.5mm x 25mm	Тор
C33	Electrol. Capacitor	470uF	63V	Low ESR	Ø12.5mm x 25mm	Тор
CN1	Plug					Тор
CN2	Connector, 2-Pin				MTA100 2p	Тор
CN3	Plug					Тор
D1	Diode	BAS16	75V		SOT-23	Bottom
D2	Diode	BAS16	75V		SOT-23	Bottom
D3	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom

D4	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D5	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D6	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D7	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D8	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D9	Diode	BAS16	75V		SOT-23	Bottom
D10	Diode	BAS16	75V		SOT-23	Bottom
D11	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D12	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D13	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D14	Dual Schottky Diode	BAT54S	30V		SOT-23	Bottom
D15	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D16	Hyperfast Diode	FFP08H60STU	600V		TO-220-2L	Тор
D17	Schottky Diode	SS14	40V		DO-214AC	Bottom
D18	Schottky Diode	SS14	40V		DO-214AC	Bottom
D19	Diode	BAS16	75V		SOT-23	Bottom
F1	Axial Lead Fuse	10A	250V	Fast Acting	5x20mm	Тор
L1	Choke	0.012mH			ETD-29	Тор
L2	Output Choke	130uH			TOROID 27.7x14,1x12mm	Тор
L3	Output Choke	130uH			TOROID 27.7x14,1x12mm	Тор
L4	Output Choke	130uH			TOROID 27.7x14,1x12mm	Тор
L5	Output Choke	130uH			TOROID 27.7x14,1x12mm	Тор
LF1	Common mode choke					Тор
Q1	MOSFET N-CH	FQA24N50			TO247-AD	Тор
Q2	MOSFET N-CH	FQA24N50			TO247-AD	Тор
Q3	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q5	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q6	NPN Transistor	BCX55-16	60V		SOT89	Bottom
Q7	MOSFET N-CH	FQA24N50			TO247-AD	Тор
Q8	MOSFET N-CH	FQA24N50			TO247-AD	Тор
R1	Resistor	5.1	1/4W		1206	Bottom
R2	Resistor	5.1	1/4W		1206	Bottom
R3	Resistor	10k	1/8W	1%	0805	Bottom
R4	Resistor	10k	1/8W	1%	0805	Bottom
R5	Metal Film Resistor	750k	3/5W	1%	AXIAL-Ø2.5 x 6.8mm	Тор
R6	Resistor	390	3/4W		2010	Bottom
R7	Resistor	390	3/4W		2010	Bottom
R8	Resistor	390	3/4W		2010	Bottom

R9	Resistor	390	3/4W		2010	Bottom
R10	Resistor	1.2k	1/8W	1%	0805	Bottom
R11	Resistor	5.1	1/4W		1206	Bottom
R13	Resistor	1.2k	1/8W	1%	0805	Bottom
R14	Resistor	1.2k	1/8W	1%	0805	Bottom
R15	Resistor	300	3/4W		2010	Bottom
R16	Resistor	5.1	1/4W		1206	Bottom
R17	Resistor	1.2k	1/8W	1%	0805	Bottom
R18	Resistor	1.2k	1/8W	1%	0805	Bottom
R19	Resistor	10k	1/8W	1%	0805	Bottom
R20	Resistor	10k	1/8W	1%	0805	Bottom
R21	Resistor	5.1	1/4W		1206	Bottom
R22	Resistor	5.1	1/4W		1206	Bottom
R23	Resistor	330	3W		AXIAL-Ø5.5 x 16mm	Тор
R24	Resistor	330	3W		AXIAL-Ø5.5 x 16mm	Тор
R25	Resistor	22	3/4W		2010	Bottom
R26	Resistor	22	3/4W		2010	Bottom
R27	Resistor	22	3/4W		2010	Bottom
R28	Resistor	22	3/4W		2010	Bottom
R29	Resistor	22	3/4W		2010	Bottom
R30	Resistor	22	3/4W		2010	Bottom
R31	Resistor	22	3/4W		2010	Bottom
R32	Resistor	22	3/4W		2010	Bottom
R33	Resistor	162R	1/8W	1%	0805	Bottom
R34	Resistor	162R	1/8W	1%	0805	Bottom
SRC1	Thyristor	BT169D			TO-92-3	Тор
T1	Gate Transformer				T1611	Тор
T2	Output				ETD-39	Тор
12	Transformer				LID 33	ТОР
Т3	Output				ETD-39	Тор
	Transformer					- 1-
T4	Current			1:100	UU-9.8-2S	Тор
T5	Transformer Gate Transformer				T1611	Ton
U1	MOSFET Driver	UCC27424			SO8	Top
					SO8	Bottom
U2 7D1	MOSFET Driver Zener Diode	UCC27424 BZV55C62	500~\\/			Bottom
ZD1	Zener Diode	DZ V 35C0Z	500mW		SOD-80	Bottom

Mains filter Board Unit

Designator	Description	Value	Volts/Watts	Comment	Case/Pacage	Layer
C1	Capacitor	10nF	250V		disc Ø15mm	Тор
C2	Polyester Capacitor	100nF	275V		18mm x 6mm x 15mm	Тор
C3	Capacitor	10nF	250V		disc Ø15mm	Тор
C4	Capacitor	10nF	250V		disc Ø15mm	Тор

C5	Polyester Capacitor	100nF	275V		18mm x 6mm x 15mm	Тор
C6	Capacitor	10nF	250V		disc Ø15mm	Тор
C7	Capacitor	100nF	50V	X7R	0805	Тор
C8	Capacitor	100nF	50V	X7R	0805	Тор
C14	Capacitor	100nF	50V	X7R	0805	Тор
C15	Capacitor	100nF	50V	X7R	0805	Тор
D4	Diode	LL4148	100V		SOD-80	Тор
D9	Diode	LL4148	100V		SOD-80	Тор
F1	Fuse	0.2A	250V	Fast Acting	5x20mm	Тор
J1	QUICK-FIT Terminal				Keystone 4966	Тор
J2	QUICK-FIT Terminal				Keystone 4966	Тор
J3	QUICK-FIT Terminal				Keystone 4966	Тор
J4	QUICK-FIT Terminal				Keystone 4966	Тор
J5	Header, 4-Pin				MTA100 4p	Тор
J6	Header, 3-Pin				MTA100 3p	Тор
L1	Ferrite Coil	2.5uH		ø2mm, 7 turns, right	Ferrite Ø8mm x 31mm	Тор
L2	Ferrite Coil	2.5uH		ø2mm, 7 turns, left	Ferrite Ø8mm x 31mm	Тор
L3	AC Line Filter	SU9V- 01100		0.1A	SU-9V	Тор
Q1	N-Channel MOSFET	2N7002	60V		SOT-23	Тор
R4	Resistor	4.7k	1/8W		0805	Тор
R6	Resistor	2.2k	1/8W		0805	Тор
R7	Resistor	10k	1/8W		0805	Тор
R8	Resistor	10k	1/8W		0805	Тор
R9	Resistor	100R	1/8W		0805	Тор
R10	Metal Film Resistor	750k	0.5W		AXIAL-Ø2.5 x 6.5mm	Тор
REL1	Relay	RT334012	12V		RT1	Тор
REL2	Relay	RT334012	12V		RT1	Тор
U1	AC-DC Power Supply	IRM-03-12	12VDC		IRM-03	Тор
U2	Optocoupler	LTV817	35V		SMD4	Тор
U3	Optocoupler	LTV817	35V		SMD4	Тор

PFC1500 CNTRL Board Unit

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
C40	Capacitor	100nF	100V	X7R	1206	Тор
C41	Capacitor	470nF	50V	X7R	0805	Тор
C42	Capacitor	680pF	16V	C0G	0805	Тор

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C43	Capacitor	100nF	50V	X7R	0805	Тор
C44	Capacitor	1uF	50V	X7R	0805	Тор
C45	Capacitor	1nF	50V	X7R	0805	Тор
C50	Capacitor	33nF	50V	X7R	0805	Тор
C51	Capacitor	100nF	50V	X7R	0805	Тор
C52	Capacitor	33nF	50V	X7R	0805	Тор
C53	Capacitor	1uF	50V	X7R	0805	Тор
C54	Capacitor	100nF	50V	X7R	0805	Тор
C55	Capacitor	1uF	50V	X7R	0805	Тор
C57	Capacitor	220pF	50V	X7R	0805	Тор
C58	Capacitor	2.2nF	50V	X7R	0805	Тор
C59	Capacitor	680pF	16V	C0G	0805	Тор
C60	Capacitor	680pF	16V	C0G	0805	Тор
C66	Capacitor	4.7nF	50V	X7R	0805	Тор
C70		Not placed			0805	Тор
C71	Capacitor	100nF	50V	X7R	0805	Тор
D31	Diode	BAS16	75V		SOT-23	Тор
D32		Not placed			SMA	Тор
D33	Schottky Diode	SS14	40V		DO-214AC	Тор
J1	Header	1x5		Right Angle	100" pich	Тор
J2	Header	1x3		Right Angle	200" pich	Тор
Q24	PNP Transistor	2SC4116	60V		SOT-23	Тор
R32	Resistor	270k	1/8W	1%	0805	Тор
R33	Resistor	270k	1/8W	1%	0805	Тор
R34	Resistor	270k	1/8W	1%	0805	Тор
R35	Resistor	90.9k	1/8W	1%	0805	Тор
R36	Resistor	17.8k	1/8W	1%	0805	Тор
R37	Resistor	200k	1/8W	1%	0805	Тор
R38	Resistor	200k	1/8W	1%	0805	Тор
R39	Resistor	200k	1/8W	1%	0805	Тор
R40	Resistor	270k	1/8W	1%	0805	Тор
R41	Resistor	1k	1/8W	1%	0805	Тор
R48	Resistor	5.1k	1/8W	1%	0805	Тор
R49	Resistor	3.3k	1/8W	1%	0805	Тор
R50	Resistor	270k	1/8W	1%	0805	Тор
R51	Resistor	270k	1/8W	1%	0805	Тор
R52	Resistor	270k	1/8W	1%	0805	Тор
R53	Resistor	270k	1/8W	1%	0805	Тор
R54	Resistor	270k	1/8W	1%	0805	Тор
R55	Resistor	270k	1/8W	1%	0805	Тор
R56	Resistor	270k	1/8W	1%	0805	Тор
R57	Resistor	270k	1/8W	1%	0805	Тор
R58	Resistor	270k	1/8W	1%	0805	Тор
R59	Resistor	200k	1/8W	1%	0805	Тор
R60	Resistor	3.3k	1/8W	1%	0805	Тор
R61	Resistor	1.2M	1/8W	1%	0805	Тор
R62	Resistor	150k	1/8W	1%	0805	Тор
R63	Resistor	21.5k	1/8W	1%	0805	Тор
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R64	Resistor	10k	1/8W	1%	0805	Тор
R65	Resistor	51	1/8W	1%	0805	Тор
R68	Resistor	100	1/8W	1%	0805	Тор
R69	Resistor	22k	1/8W	1%	0805	Тор
R76	Resistor	1k	1/8W	1%	0805	Тор
R77	Resistor	1k	1/8W	1%	0805	Тор
R78	Resistor	10k	1/8W	1%	0805	Тор
R79	Resistor	49.9k	1/8W	1%	0805	Тор
R80	Resistor	10k	1/8W	1%	0805	Тор
U2	IC PFC Control	UC3855BDW			SO20	Тор
U5	Operational Amplifier	LM358			SO8	Тор
ZD1	Zener Diode	BZX84C5V6	0.3W		SOT-23	Тор
ZD2		Not placed			SOT-23	Тор

DC1500 CNTRL Board Unit

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
C1	Capacitor	100nF	50V	X7R	0805	Тор
C2	Capacitor	10nF	50V	X7R	0805	Тор
C3	Capacitor	100nF	50V	X7R	0805	Тор
C4	Capacitor	10uF	6.3V	X7R	0805	Тор
C5	Capacitor	100nF	50V	X7R	0805	Тор
C6	Capacitor	4.7nF	50V	X7R	0805	Тор
C7	Capacitor	100nF	50V	X7R	0805	Тор
C8	Capacitor	10nF	50V	X7R	0805	Тор
C9	Capacitor	470pF	50V	X7R	0805	Тор
C10	Capacitor	100nF	50V	X7R	0805	Тор
C11	Capacitor	470pF	50V	X7R	0805	Тор
C12	Capacitor	10nF	50V	X7R	0805	Тор
C13	Capacitor	1uF	16V	X7R	0805	Тор
C14	Capacitor	100nF	50V	X7R	0805	Тор
C15	Capacitor	1uF	16V	X7R	0805	Тор
C16	Capacitor	100nF	50V	X7R	0805	Тор
C17	Capacitor	100nF	50V	X7R	0805	Тор
C18	Capacitor	100nF	50V	X7R	0805	Тор
C19	Capacitor	100nF	50V	X7R	0805	Тор
C20	Capacitor	100nF	50V	X7R	0805	Тор
C21	Capacitor	100nF	50V	X7R	0805	Тор
C22	Capacitor	100nF	50V	X7R	0805	Тор
C24	Capacitor	100nF	50V	X7R	0805	Тор
C25	Capacitor	100nF	50V	X7R	0805	Тор
C26	Capacitor	100nF	50V	X7R	0805	Тор
C27	Capacitor	100nF	50V	X7R	0805	Тор
C28	Capacitor	100nF	50V	X7R	0805	Тор
C29	Capacitor	100nF	50V	X7R	0805	Тор
C30	Capacitor	100nF	50V	X7R	0805	Тор
C31	Capacitor	100nF	50V	X7R	0805	Тор
C32	Capacitor	100nF	50V	X7R	0805	Тор

C33	Conneitor	100nF	50V	X7R	0805	Тор
C34	Capacitor	100nF	50V	X7R X7R	0805	Тор
	Capacitor					
C35	Capacitor	100nF	50V	X7R	0805	Тор
C36	Capacitor	100nF	50V	X7R	0805	Top
CN2	Connector, 2-Pin			Right Angle	MTA100 2p	Тор
CN3	Connector, 2-Pin			Right Angle	MTA100 2p	Тор
D1	Diode	BAS16	75V		SOT-23	Тор
D3	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D4	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D5	Schottky Diode	BAS70-04	70V		SOT-23	Тор
L4	Inductor	10uH		150mA	0805	Тор
L5	Inductor	10uH		150mA	0805	Тор
LED1	LED	Green- Deffused		20mA	3mm Round Standart	Тор
PCB1	Header	1x17		Right Angle	100" pich	Тор
Q1	NPN Transistor	BC847	45V		SOT-23	Тор
Q2	NPN Transistor	BC847	45V		SOT-23	Тор
R1	Resistor	40.2k	1/8W	1%	0805	Тор
R2	Resistor	1.5k	1/8W	1%	0805	Тор
R3	Resistor	10k	1/8W	1%	0805	Тор
R4	Resistor	1.5k	1/8W	1%	0805	Тор
R5	Resistor	1k	1/8W	1%	0805	Тор
R6	Resistor	1k	1/8W	1%	0805	Тор
R7	Resistor	1k	1/8W	1%	0805	Top
R8	Resistor	1k	1/8W	1%	0805	Тор
R10	Resistor	30k	1/8W	1%	0805	Тор
R11	Resistor	10k	1/8W	1%	0805	Тор
R12	Resistor	100k	1/8W	1%	0805	Тор
R13	Resistor	100k	1/8W	1%	0805	Тор
R14	Resistor	102k	1/8W	1%	0805	Тор
R15	Resistor	10210	1/8W	1%	0805	Тор
R16	Resistor	7.5	1/8W	1%	0805	Тор
R17		10k	1/8W	1%	0805	Тор
	Resistor					· ·
R18	Resistor	5.1k	1/8W	1%	0805	Тор
R19	Resistor	1k	1/8W	1%	0805	Top
R20	Resistor	2.2k	1/8W	1%	0805	Top
R21	Resistor	2.2k	1/8W	1%	0805	Top
R22	Resistor	2.4k	1/8W	1%	0805	Top
R23	Resistor	5.1k	1/8W	1%	0805	Тор
R24	Resistor	10	1/8W	1%	0805	Тор
R25	Resistor	23.7k	1/8W	1%	0805	Тор
R26	Resistor	2.4k	1/8W	1%	0805	Тор
R27	Resistor	5.1k	1/8W	1%	0805	Тор
R28	Resistor	10k	1/8W	1%	0805	Тор
R29	Resistor	10k	1/8W	1%	0805	Тор
R30	Resistor	100k	1/8W	1%	0805	Тор
R31	Resistor	10	1/8W	1%	0805	Тор
R32		Not placed		1%	0805	Тор

	1			1		
R33	Resistor	300	1/8W	1%	0805	Тор
R35	Resistor	1k	1/8W	1%	0805	Тор
R37	Resistor	5.1k	1/8W	1%	0805	Тор
R38	Resistor	100k	1/8W	1%	0805	Тор
R39	Resistor	560k	1/8W	1%	0805	Тор
R40	Resistor	2.2k	1/8W	1%	0805	Тор
R43	Resistor	2.2k	1/8W	1%	0805	Тор
R44	Resistor	120k	1/8W	1%	0805	Тор
R45	Resistor	100k	1/8W	1%	0805	Тор
R46	Resistor	750k	1/8W	1%	0805	Тор
R47	Resistor	820k	1/8W	1%	0805	Тор
R48	Resistor	30k	1/8W	1%	0805	Тор
R49	Resistor	30k	1/8W	1%	0805	Тор
R50	Resistor	30k	1/8W	1%	0805	Тор
R51	Resistor	180k	1/8W	1%	0805	Тор
R52	Resistor	30k	1/8W	1%	0805	Тор
R53	Resistor	510k	1/8W	1%	0805	Тор
R54	Resistor	150k	1/8W	1%	0805	Тор
R55	Resistor	100k	1/8W	1%	0805	Тор
R56	Resistor	100k	1/8W	1%	0805	Тор
R57	Resistor	200k	1/8W	1%	0805	Тор
R58	Resistor	2.2k	1/8W	1%	0805	Тор
R59	Resistor	2.2k	1/8W	1%	0805	Тор
R65	Resistor	5.1k	1/8W	1%	0805	Тор
R66	Resistor	10k	1/8W	1%	0805	Тор
R68	Resistor	33	1/4W		1206	Тор
R69	Resistor	300k	1/8W	1%	0805	Тор
R70	Resistor	33	1/4W		1206	Тор
R71	Resistor	2.2k	1/8W	1%	0805	Тор
R72	Resistor	2.2k	1/8W	1%	0805	Тор
R73	Resistor	2.4k	1/8W	1%	0805	Тор
R74	Resistor	2.4k	1/8W	1%	0805	Тор
R75	Resistor	33	1/4W		1206	Тор
R76	Resistor	2.2k	1/8W	1%	0805	Тор
R77	Resistor	100	1/8W		0805	Тор
R78	Resistor	100	1/8W		0805	Тор
R79	Resistor	100	1/8W		0805	Тор
SVR1	Trimmer Resistor	1k	1/2W		Bourns- 3296X	Тор
U1	Shunt Regulator	TS431			SOT-23	Тор
U2	Operational Amplifier	LM358			SO8	Тор
U3	Shunt Regulator	TS431			SOT-23	Тор
U4	Phase-Shift PWM	UCC2895DW			SO20	Тор
U5	Dual Differential	LM393			SO8	Тор
U6	Single-Supply Quad	LM339			SO14	Тор
ZD1	Zener Diode	BZV55C75	500mW		SOD-80	Тор

LCD CNTRL Unit

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
B1		Not placed			Ø7mm BATT	Bottom
C1	Capacitor	1uF	16V	X7R	0805	Bottom
C2	Capacitor	100nF	50V	X7R	0805	Bottom
C3	Tantalum Capacitor	150uF	10V	7,,,,	CASE D	Bottom
C4	Capacitor	100nF	50V	X7R	0805	Bottom
C5	Tantalum Capacitor	150uF	10V	7,,,,	CASE D	Bottom
C6	Tantalum Capacitor	150uF	10V		CASE D	Bottom
C7	Capacitor	100nF	50V	X7R	0805	Bottom
C8	Capacitor	100nF	50V	X7R	0805	Bottom
C9	Capacitor	100nF	50V	X7R	0805	Bottom
C10	Capacitor	10uF	16V	X5R	0805	Bottom
C11	Capacitor	100nF	50V	X7R	0805	Bottom
C12	Capacitor	100nF	50V	X7R X7R	0805	Bottom
C13	Electrol. Capacitor	100m	35V	AIN	Ø6.3mm x 12mm	Bottom
C14	Capacitor		50V	COG	0805	Bottom
		560pF				
C15	Capacitor	1uF	16V	X7R	0805	Bottom
C16	Capacitor	1uF	16V	X7R	0805	Bottom
C17	Capacitor	10uF	16V	X5R	0805	Bottom
C18	Capacitor	10uF	16V	X5R	0805	Bottom
C19	Capacitor	10uF	16V	X5R	0805	Bottom
C20	Capacitor	1uF	16V	X7R	0805	Bottom
C21	Capacitor	1nF	50V	X7R	0805	Bottom
C22	Capacitor	10uF	16V	X5R	0805	Bottom
C23	Capacitor	100nF	50V	X7R	0805	Bottom
C24	Capacitor	22pF	50V	C0G	0805	Bottom
C25	Capacitor	100nF	50V	X7R	0805	Bottom
C26	Capacitor	100nF	50V	X7R	0805	Bottom
C27	Capacitor	100nF	50V	X7R	0805	Bottom
C28	Tantalum Capacitor	150uF	10V		CASE D	Bottom
C29	Capacitor	1nF	50V	X7R	0805	Bottom
C30	Capacitor	100nF	50V	X7R	0805	Bottom
C31	Capacitor	100nF	50V	X7R	0805	Bottom
C32	Capacitor	10uF	16V	X5R	0805	Bottom
C33	Capacitor	100nF	50V	X7R	0805	Bottom
C34	Capacitor	22pF	50V	C0G	0805	Bottom
C35	Capacitor	100nF	50V	X7R	0805	Bottom
C36	Capacitor	100nF	50V	X7R	0805	Bottom
C37	Capacitor	100nF	50V	X7R	0805	Bottom
C38	Capacitor	100nF	50V	X7R	0805	Bottom
C39	Capacitor	100nF	50V	X7R	0805	Bottom
C40	Capacitor	100nF	50V	X7R	0805	Bottom
C41	Capacitor	100nF	50V	X7R	0805	Bottom
C42	Capacitor	100nF	50V	X7R	0805	Bottom
C42	Capacitor	100nF	50V	X7R X7R	0805	Bottom
C43	Capacitor	100F	16V	X5R	0805	Bottom
	Capacitor	100F 100nF	50V			
C45				X7R	0805	Bottom
C46	Capacitor	100nF	50V	X7R	0805	Bottom
C47	Capacitor	100nF	50V	X7R	0805	Bottom
C48	0	400	E 0 \ /			
C49	Capacitor	100nF	50V	X7R	0805	Bottom
	Capacitor	100nF	50V	X7R	0805	Bottom
C50	Capacitor Capacitor	100nF 100nF	50V 50V	X7R X7R	0805 0805	Bottom Bottom
C51	Capacitor Capacitor Capacitor	100nF 100nF 100nF	50V 50V 50V	X7R X7R X7R	0805 0805 0805	Bottom Bottom Bottom
C51 C52	Capacitor Capacitor Capacitor Capacitor	100nF 100nF 100nF 10uF	50V 50V 50V 16V	X7R X7R X7R X5R	0805 0805 0805 0805	Bottom Bottom Bottom Bottom
C51 C52 C53	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	100nF 100nF 100nF 10uF 10uF	50V 50V 50V 16V 50V	X7R X7R X7R X5R X7R	0805 0805 0805 0805 0805	Bottom Bottom Bottom Bottom Bottom
C51 C52 C53 C54	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	100nF 100nF 100nF 10uF 100nF 100nF	50V 50V 50V 16V 50V 50V	X7R X7R X7R X5R X5R X7R X7R	0805 0805 0805 0805 0805 0805	Bottom Bottom Bottom Bottom Bottom Bottom Bottom
C51 C52 C53 C54 C55	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF	50V 50V 50V 16V 50V 50V 50V	X7R X7R X7R X5R X5R X7R X7R X7R	0805 0805 0805 0805 0805 0805 0805	Bottom Bottom Bottom Bottom Bottom Bottom Bottom Bottom
C51 C52 C53 C54 C55 C56	Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF	50V 50V 50V 16V 50V 50V 50V 50V 50V	X7R X7R X7R X5R X5R X7R X7R X7R X7R	0805 0805 0805 0805 0805 0805 0805 0805	Bottom
C51 C52 C53 C54 C55 C56 C56	Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF 1nF	50V 50V 50V 16V 50V 50V 50V 50V 50V 50V	X7R X7R X7R X5R X5R X7R X7R X7R X7R X7R	0805 0805 0805 0805 0805 0805 0805 0805	Bottom Bottom Bottom Bottom Bottom Bottom Bottom Bottom
C51 C52 C53 C54 C55 C56	Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF	50V 50V 50V 16V 50V 50V 50V 50V 50V 50V	X7R X7R X7R X5R X7R X7R X7R X7R X7R X7R X7R X7	0805 0805 0805 0805 0805 0805 0805 0805	Bottom
C51 C52 C53 C54 C55 C56 C56	Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF 1nF	50V 50V 50V 16V 50V 50V 50V 50V 50V 50V	X7R X7R X7R X5R X5R X7R X7R X7R X7R X7R	0805 0805 0805 0805 0805 0805 0805 0805	Bottom
C51 C52 C53 C54 C55 C56 C58 C59	Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF 1nF 100nF 100nF	50V 50V 50V 16V 50V 50V 50V 50V 50V 50V	X7R X7R X7R X5R X7R X7R X7R X7R X7R X7R X7R X7	0805 0805 0805 0805 0805 0805 0805 0805	Bottom
C51 C52 C53 C54 C55 C56 C58 C59	Capacitor	100nF 100nF 100nF 10uF 100nF 100nF 100nF 10nF 100nF 100nF	50V 50V 50V 16V 50V 50V 50V 50V 50V 50V 50V 50	X7R X7R X7R X5R X7R X7R X7R X7R X7R X7R X7R X7	0805 0805 0805 0805 0805 0805 0805 0805 0805 0805	Bottom
C51 C52 C53 C54 C55 C56 C58 C59 C60	Capacitor	100nF 100nF 100nF 10uF 10uF 100nF 100nF 100nF 100nF 100nF 100nF	50V 50V 50V 16V 50V 50V 50V 50V 50V 50V 50V 50	X7R X7R X7R X5R X7R X7R X7R X7R X7R X7R X7R X7	0805 0805 0805 0805 0805 0805 0805 0805 0805 0805 0805	Bottom

C65	Tantalum Capacitor	150uF	10V		CASE D	Bottom
C66	Capacitor	100nF	50V	X7R	0805	Bottom
C67	Capacitor	100nF	50V	X7R	0805	Bottom
C68	Capacitor	100nF	50V	X7R	0805	Bottom
C69	Capacitor	100nF	50V	X7R	0805	Bottom
C70	Capacitor	100nF	50V	X7R	0805	Bottom
C71	Capacitor	100nF	50V	X7R	0805	Bottom
C72	Capacitor	33pF	50V	C0G	0805	Bottom
C73	Capacitor	100nF	50V	X7R	0805	Bottom
C74	Capacitor	100nF	50V	X7R	0805	Bottom
C75	Capacitor	100nF	50V	X7R	0805	Bottom
C76	Capacitor	100nF	50V	X7R	0805	Bottom
C77	Capacitor	100nF	50V	X7R	0805	Bottom
C78	Capacitor	100nF	50V	X7R	0805	Bottom
C79	Capacitor	1nF	50V	X7R	0805	Bottom
C80	Capacitor	100nF	50V	X7R	0805	Bottom
D1	Schottky Diode	B0540W-7-F	40V	0.5A	SOD-123	Bottom
DL1	LED	GREEN	2.6V	20mA	0805	Bottom
DL2	LED	GREEN	2.6V	20mA	0805	Bottom
DL3	LED	RED	2.6V	20mA	0805	
				ZUIIIA		Bottom
DZ1	Zener Diode	BZX84C24	0.25W		SOT-23	Bottom
FB1	Ferrite Bead	330		100MHz	0805	Bottom
FB2	Ferrite Bead	330		100MHz	0805	Bottom
FB3	Ferrite Bead	330		100MHz	0805	Bottom
FB4	Ferrite Bead	330		100MHz	0805	Bottom
FB5	Ferrite Bead	330		100MHz	0805	Bottom
FB6	Ferrite Bead	330		100MHz	0805	Bottom
J601	Connector, 8-Pin				MTA100 8p	Bottom
J602	IDC BOX Header				2.54mm pich	Bottom
J603	Connector, 6-Pin				MTA100 6p	Bottom
J604	Connector USB Mini				SMT	Bottom
					MTA100 2p	
J605	Connector, 2-Pin				$N/I \Delta 100.2n$	Bottom
J606	FPC Connector, 40p	FH12A-40S-			0.5mm, Top Contact	Bottom
J606 J607	FPC Connector, 40p	FH12A-40S- Not placed				Bottom Bottom
J607	FPC Connector, 40p	Not placed			0.5mm, Top Contact 2.54mm pich	Bottom
J607 J608	· •				0.5mm, Top Contact 2.54mm pich 2.54mm pich	Bottom Bottom
J607 J608 J609	Pin Header, 2-Pin	Not placed Not placed		050m A	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich	Bottom Bottom Bottom
J607 J608 J609 L1	Pin Header, 2-Pin Inductor	Not placed Not placed		650mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812	Bottom Bottom Bottom Bottom
J607 J608 J609 L1 L2	Pin Header, 2-Pin Inductor Ferrite Bead	Not placed Not placed 10uH 1k		100MHz	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805	Bottom Bottom Bottom Bottom Bottom
J607 J608 J609 L1	Pin Header, 2-Pin Inductor	Not placed Not placed			0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812	Bottom Bottom Bottom Bottom
J607 J608 J609 L1 L2	Pin Header, 2-Pin Inductor Ferrite Bead	Not placed Not placed 10uH 1k		100MHz	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220	Bottom Bottom Bottom Bottom Bottom
J607 J608 J609 L1 L2 L3	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor	Not placed Not placed 10uH 1k 180uH 10uH		100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805	Bottom Bottom Bottom Bottom Bottom Bottom Bottom Bottom Bottom
J607 J608 J609 L1 L2 L3 L4	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor	Not placed Not placed 10uH 1k 180uH 10uH 10uH	50V	100MHz 190mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805	Bottom
J607 J608 J609 L1 L2 L3 L4 L5	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH 10uH DDTC143XUA-7-	50V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7-	50V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7-	50V 50V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7-	50V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7-	50V 50V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7-	50V 50V 50V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7-	50V 50V 50V 50V 45V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN Transistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40	50V 50V 50V 50V 45V 45V	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k	50V 50V 50V 50V 45V 45V 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN Transistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k	50V 50V 50V 50V 45V 45V 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k	50V 50V 50V 50V 45V 45V 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN Transistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k	50V 50V 50V 50V 45V 45V 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k	50V 50V 50V 50V 45V 45V 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed Not placed 10uH 1k 180uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor	Not placed Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k 1k	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k 1k Not placed Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k 1k Not placed Not placed Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k 1k Not placed Not placed Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- LAST SEROT-40 1k 1k 1k 1k 1k 1k 1k Not placed Not placed Not placed Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k 1k Not placed Not placed Not placed Not placed Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 S	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 SOT-32	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor Resistor Resistor Resistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 S	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED PNP Transistor NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-325 S	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-23 SOT-23 0805 0805 0805 0805 0805 0805 0805 080	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-23 SOT-23 SOT-23 0805 0805 0805 0805 0805 0805 0805 080	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17 R18	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-23 SOT-23 0805 0805 0805 0805 0805 0805 0805 080	Bottom
J607 J608 J609 L1 L2 L3 L4 L5 Q1 Q2 Q3 Q4 Q5 Q6 Q7 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 R14 R15 R16 R17	Pin Header, 2-Pin Inductor Ferrite Bead Inductor Inductor Inductor Inductor NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN PRE-BIASED NPN Transistor Resistor	Not placed Not placed 10uH 1k 180uH 10uH 10uH DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DDTC143XUA-7- DTC143XUA-7- BC807-40 BC817-40 1k 1k 1k 1k Not placed	50V 50V 50V 50V 45V 45V 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W	100MHz 190mA 150mA	0.5mm, Top Contact 2.54mm pich 2.54mm pich 2.54mm pich 2.54mm pich 1812 0805 2220 0805 0805 SOT-323 SOT-323 SOT-323 SOT-323 SOT-323 SOT-23 SOT-23 SOT-23 0805 0805 0805 0805 0805 0805 0805 080	Bottom

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R21	Resistor	27	1/8W		0805	Bottom
R22	Resistor	330k	1/8W		0805	Bottom
R23	Resistor	27	1/8W		0805	Bottom
R24	Resistor	1k	1/8W		0805	Bottom
R25	Resistor	1k	1/8W		0805	Bottom
R26	Resistor	1k	1/8W		0805	Bottom
R27	Resistor	1k	1/8W		0805	Bottom
R28	Resistor	1k	1/8W		0805	Bottom
R29	Resistor	1k	1/8W		0805	Bottom
R30	Resistor	0	1/8W		0805	Bottom
R31		Not placed			0805	Bottom
R32	Resistor	10k	1/8W		0805	Bottom
R33	Resistor	100k	1/8W		0805	Bottom
R34		Not placed	.,, ., .,		0805	Bottom
R35	Resistor	100	1/8W		0805	Bottom
R36	Resistor	10k	1/8W		0805	Bottom
R37	Resistor	4.7k	1/8W		0805	Bottom
R38	Resistor	4.7k	1/8W		0805	Bottom
R39	Resistor	180	1/8W		0805	Bottom
R40	Resistor	0.47	1/4W	1%	1206	Bottom
R41	Resistor	100k	1/4VV	1 70	0805	Bottom
R42	Resistor	4.7k	1/8W		0805	Bottom
R43	Resistor	560	1/8W		0805	Bottom
R44	Resistor	300	1/8W		0805	Bottom
R45	Resistor	1k	1/8W		0805	Bottom
R46		560			0805	
	Resistor		1/8W			Bottom
R47	Resistor	100k	1/8W		0805	Bottom
R48	Resistor	100k	1/8W		0805	Bottom
R49	Resistor	100k	1/8W		0805	Bottom
R50	Resistor	120	1/8W		0805	Bottom
SW1	Tactile Switch				6mm X 6mm SMT	Bottom
SW2	Tactile Switch	MANGOOD			6mm X 6mm SMT	Bottom
<u>U1</u>	Dual EIA-232 Driver	MAX232D			SO16	Bottom
U2	Serial EEPROM	24LC512-I/SN			SO-8W	Bottom
U3	Microcontroller	MCP120T-475			SOT-23	Bottom
U4	Gate NAND IC	74HC00			SO14	Bottom
U5	Gate NAND IC	74HC30			SO14	Bottom
U6	AVR Microcontroller	ATMEGA128A-			TQFP64	Bottom
U7		Not placed				Bottom
U8	D-Type Transparent	74HC573			TSSOP-20	Bottom
U9	CMOS Static RAM	IS62C1024AL-			SOP32	Bottom
U10	Voltage Regulator	LD1117S33TR	3.3V		SOT-223	Bottom
U11	EconoReset with	DS1818R-10+T/R			SOT-23	Bottom
U12	DC-DC converter	MC34063			SO8	Bottom
U13		Not placed				Bottom
U14	Voltage Regulator	LD1117S12TR	1.2V		SOT-223	Bottom
U15	IC FLASH	AT45DB321D	<u> </u>		SO8	Bottom
U16	IC SDRAM	IS42S32800D-			TSOP-86 II	Bottom
U17	Amulet GEM Graphical	AGB75LC04-QU-			PQFP-208	Bottom
Y1	Quartz Crystal	16.000 MHz			HC-49S	Bottom
Y2	Quartz Crystal	12.000 MHz			HC-49S	Bottom
Y3		Not placed				Bottom
			_			

Keyboard Unit

Designator	Description	Value	Volts/Wats	Comment	Case/Package	Layer
J601	Connector, 8-Pin				MTA100 8p	Тор
SW1	Switch	MEC			5GTH965	Тор
SW2	Switch	MEC			5GTH965	Тор
SW3	Switch	MEC			5GTH965	Тор
SW4	Switch	MEC			5GTH965	Тор
SW5	Switch	MEC			5GTH965	Тор
SW6	Switch	MEC			5GTH965	Тор

ON/OFF Unit

Designator	Description	Value	Volts/Wats	Comment	Case/Package	Layer
SW1	Switch	MEC			5GTH965	Тор
J601	Connector, 4-Pin			Right Angle	MTA100 4p	Тор
LD1	LED	Red		20mA	5mm Round Standart	Тор

Wattmeter Unit

Designator	Description	Value	Volts/Watts	Comment	Case/Package	Layer
C1	Capacitor	100nF	50V	X7R	0805	Тор
C2	Capacitor	47nF	50V	X7R	0805	Тор
C3	Capacitor	39nF	250V	X7R	1206	Тор
C4	Capacitor	2.2nF	630V	U2J	1210	Тор
C5	Capacitor	2.2nF	630V	U2J	1210	Тор
C6	Capacitor	27pF	50V	C0G/NP0	0805	Тор
C7	Capacitor	2.2nF	630V	U2J	1210	Тор
C8	Capacitor	220nF	100V	X7R	1206	Тор
C9	Capacitor	220nF	100V	X7R	1206	Тор
C10	Capacitor	10pF	630V	C0G/NP0	1808	Тор
C11	Capacitor	2.7pF	5kV	C0G/NP0	disc Ø10mm	Тор
C12	Capacitor	10pF	500V	C0G/NP0	1206	Тор
C13	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C14	Capacitor	47nF	50V	C0G/NP0	0805	Тор
C15	Capacitor	2.2nF	630V	U2J	1210	Тор
C16	Capacitor	2.2nF	630V	U2J	1210	Тор
C17	Electrol. Capacitor	100uF	35V		5mm x 11mm	Тор
C18	Capacitor	100nF	50V	X7R	0805	Тор
C19	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C20	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C21	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C22	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C23	Trimmer Capacitor	9.8-50pF			TZ03	Bottom
C24	Capacitor	47pF	50V	C0G/NP0	1206	Тор
C25	Capacitor	47pF	50V	C0G/NP0	1206	Тор
C26	Capacitor	47pF	50V	C0G/NP0	1206	Тор
C27		NC			0805	Тор
C28	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C29	Capacitor	100nF	50V	X7R	0805	Тор
C30	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C31	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C32		NC			0805	Тор
C33	Capacitor	100nF	50V	X7R	0805	Тор

C34	Capacitor	100nF	50V	X7R	0805	Тор
C35	Capacitor	3.3pF	200V	C0G/NP0	1206	Тор
C36	Capacitor	33pF	100V	C0G/NP0	0805	Тор
C37	Capacitor	1nF	50V	COG/NP0	0805	Тор
C38	Capacitor	10nF	50V	X7R	0805	Тор
C39	Capacitor	10nF	50V	X7R	0805	Тор
C40	Capacitor	1nF	50V	C0G/NP0	0805	Тор
C40 C41	Capacitor	1nF	50V	COG/NP0	0805	Тор
C41 C42	Capacitor	1nF	50V	COG/NP0	0805	Тор
D1	Schottky Diode	BAS70-04	70V	COG/INFO	SOT-23	Тор
D2	Diode	LL4148	100V		SOD-80	Тор
D2			70V			
	Schottky Diode	BAS70-04			SOT-23	Тор
D4	Schottky Diode	BAS70-04	70V		SOT-23	Тор
D5	Diode	LL4148	100V		SOD-80	Top
D6	Schottky Diode	BAS70-04	70V		SOT-23	Top -
D7	Zener Diode	BZX84C4V7	0.3W		SOT-23	Тор
J1	Connector UHF				SO-239	Bottom
J2	Jack Straight				SMA	Тор
J3	Jack Straight				SMB	Тор
J4	Header, 3-Pin				MTA100 3p	Тор
J5	Header, 8-Pin				MTA100 8p	Тор
J6	Connector UHF				SO-239	Bottom
J7	Jack Straight				SMB	Тор
J8	Jack Straight				SMB	Тор
K1	Relay	RTE24024	24V		RT2	Тор
K2	Relay	TQ2-24	24V		TQ2	Тор
L1	Inductor	820uH	60mA		1812	Тор
L2	Inductor	51uH				Тор
L3	Inductor	47uH				Тор
L4	Inductor	22uH	100mA		1210	Тор
L5	Inductor	22uH	1A		6mm x 6mm	Тор
R1	Resistor	3.3k	1/8W		0805	Тор
R2	Resistor	1k	1/8W		0805	Тор
R3	Resistor	61.9	1/4W		1206	Тор
R4	Resistor	61.9	1/4W		1206	Тор
R5	Resistor	390	1/8W		0805	Тор
R6	Resistor	61.9	1/4W		1206	Тор
R7	Resistor	61.9	1/4W		1206	Тор
R8	Resistor	1M			Res1W_12mm	Тор
R9		421	1/4W	1%	1206	Тор
R10	Resistor	43k	1/4VV	-70	1200	-
	Resistor Resistor	43k 150k	1/4VV 1/8W	1%	0805	Тор
R11						
R11 R12	Resistor	150k	1/8W		0805	Тор
1	Resistor Resistor	150k 61.9	1/8W 1/4W		0805 1206	Тор Тор

R15	Resistor	82k	1/8W	1%	0805	Тор
R16	Resistor	10k	1/8W		0805	Тор
R17	Resistor	10k	1/8W		0805	Тор
R18	Resistor	47	1/8W		0805	Тор
R19	Resistor	61.9	1/4W		1206	Тор
R21	Resistor	1k	1/8W		0805	Тор
R22	Resistor	40.2k	1/8W	1%	0805	Тор
R23	Resistor	5.1k	1/8W		0805	Тор
R24	Resistor	47	1/4W		1206	Тор
R25	Resistor	4.7k	1W	1%	2512	Тор
R26	Resistor	1k	1/8W		0805	Тор
R27	Resistor	100k	1/8W	1%	0805	Тор
R28	Resistor	100k	1/8W	1%	0805	Тор
R29	Resistor	470	1/4W	1%	1206	Тор
RP1	Potentiometer	10k	0.1W		PT6KV	Bottom
RP2	Potentiometer	50k	0.1W		PT6KV	Bottom
RP3	Potentiometer	10k	0.1W		PT6KV	Bottom
T1	Transformer	1:30				Тор
T2	Signal Transformer					Тор
T3	Transformer	1:20				Тор
U1		TLV2372ID	·	_	SO8	Тор