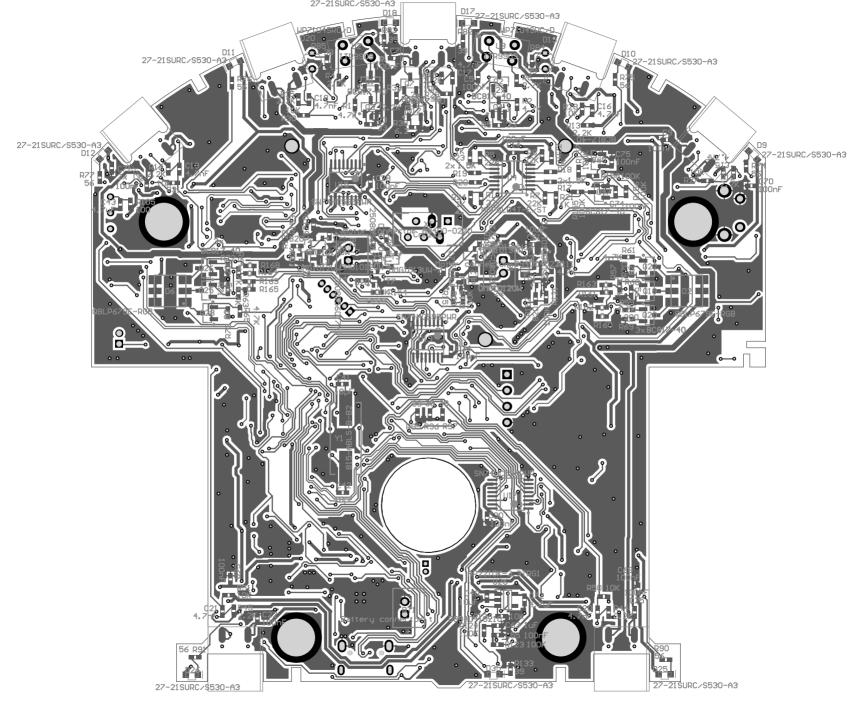


MicroSD-Astron 5190008-XA4-R



Descriptor Des	Quantity	Comment	Designator	Description	Footprint
Mills	2				
Company	1				
March		553.5. j. comincetor (00740*10210		monton sattery	ST 2
Part			C26, C27, C28, C29, C30, C33, C35, C36, C37, C38, C39, C55, C62, C65,		
Fig. 10	38	100nF	C66, C67, C68, C69, C70, C71, C74, C75	Capacitor	CAPC1005X05N
196	8	10uF	C2, C31, C40, C46, C51, C52, C73, C78	Capacitor	CAPC1005X05N
0.34	2	2 51pF	C4, C64	Capacitor	CAPC1005X05N
CLAP	7	4.7nF	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC1005X05N
1945 95	9	4.7uF			CAPC1005X05N
Part	1				
1	2				
March Marc	2			0	
Company					
Onc. Control	3				
10 10 10 10 10 10 10 10	1			Capacitor	
1.00 1.00	3	<u> </u>		Capacitor	
D 97 STARSCANSA-1	4	19-21SURC/S530-A3/TR8	D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N
1 17 17 17 17 17 17 17	2	YLL-T50GRB-3-BJ-05	D2, D6		QBLP679E-RGB
April 1985 St. 198	12	27-21SURC/S530-A3	D7, D9, D10, D11, D12, D17, D18, D25, D26, D32, D35, D36	SMD Red led right angle mount 2V@20ma 57mcd	27-21 EVERLIGHT
Security	3	27-21/BHC-AN1P2/3C	D8, D31, D37	SMD Blue led right angle mount 3.3V@20ma 28mcd	27-21 Everlight Blue
April 1986 CO Prince C	8	APTD1608SYCK	D13, D14, D15, D16, D21, D22, D23, D24	LED standard - CMS Helios SMD Yellow 590nm 480mcd	DIOC1608X08N
2 - 200-079-16-16-16 201-079-16-16-16-16-16-16-16-16-16-16-16-16-16-	2				
Description	2				
\$10,000 \$10,	2	<u> </u>		IED standard - CMS Helios SMD Green 570pm 230mcd	
Department Dep	3				
Section Sect	2				
Description	5				
20	1			'	
DOC COLUMN 2002 CERT 2005 CERT 2	1	TD4015BPN		Omnidirectional Back Electret Condenser Microphone	MICRO_TD4015BPN
10 10 10 10 10 10 10 10	<u> </u>				
1.1. 1.1.	AF	BC817-40		NPN General-purpose Transistor	SOT23_N
15 15 15 15 15 15 15 15			R1, R2, R57, R59, R61, R63, R64, R65, R92, R93, R94, R111, R112, R113,	· · · · · · · · · · · · · · · · · · ·	
1 2 77.00 14 16.00	18	4.7K		Resistor	RESC1005X04N
10 200. 27 28 28 28 28 28 28	2	2 33	R3, R5	120, Resistor	RESC1005X04N
17 22	2	2 2.7K	R4, R6	Resistor	RESC1005X04N
17 22	10	22K	R7. R8. R9. R10. R11. R42. R43. R67. R130. R142	120. Resistor	RESC1005X04N
7, 1 K				.,	
10 15 15 15 15 15 15 15	17	2.2K	R103, R104, R126	120, Resistor	RESC1005X04N
10 10 10 10 10 10 10 10	7	1.5K	R17, R18, R19, R20, R26, R46, R47	120	RESC1005X04N
14 TOC	10	1K	R21, R22, R23, R24, R25, R48, R49, R108, R166, R167	120, Resistor	RESC1005X04N
10 10 10 10 10 10 10 10					
19	16	<u> </u>	R128, R129, R136	120, Resistor	
18 6 Res, Ref, 1968, Ref, 1968, Ref, 1968, Ref, 1968, Ref, 1969, Ref, 1	7	6.2		120	RESC1005X04N
1	10	0.54		Posistor E4	DESC100EV04N
4 20	10	3 30	R90, R91, R96, R147	RESISTOT, 56	RESC 1003X04IN
4 £2.	14	1 39	R66, R82, R83, R84, R85, R86, R87, R88, R89, R95, R96, R97, R133, R134	Resistor	RESC1005X04N
4 100 \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10,	4	200	R68, R71, R99, R148	200	RESC1005X04N
4 100 \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10,	4	82	R70, R73, R100, R149	82	RESC1005X04N
2 50 810 / 813	1			Pacietanca Pacietor	
2 S AK	2				
1 100K R119, R129, R129, R129, R129, R139, R139, R141, R143, R135, R141, R143, R155, R157, R158, R157, R158, R159, R141, R143, R155, R151, R152, R154, R158, R157, R158,	2				
15 100K R156, R157, R159, R159 Resistor R55:1005X0HN 1 89K R125 Resistor R55:1005X0HN 1 3 88K R127 R513, R151, R152, R153, R154 Resistor R55:1005X0HN 1 7 K R132 R513, R154, R152, R153, R154 Resistor R55:1005X0HN 1 7 K R130 R513, R154, R152, R153, R154 R515 R514 R515 R515 R515 R515 R515		5.6K		RESISTOF	RESC 1005X04N
Select S	15	100K		Resistor	RESC1005X04N
Bill	1				RESC1005X04N
September Sept	1				
1 ATK	-				
1 200K R140 Resistor RESC1005X04N	5				
Page					
NCPISWH03F03RC	1	Z/UK			
MicroSD-Astron 5190008-XA4-R	6	0			
SW-PB S2	1				
Modification Modi	1	MicroSD-Astron 5190008-XA4-R		MicroSD Card connector 5190008-XA4-R	
A DMG1012UW TS, T6, T7, T8 Transistor MOSFET 1 x N, Pining : 1 = G, 2 = S, 3 = D SOT65P210X100-3N 1 STM-LISZDE12-LGA-12	1	SW-PB	S2	Switch	FSMRA2JH
STM-LISZDE12-LGA-12	4	DMG1013UW-7	T1, T2, T3, T4	Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N
STM-LISZDE12-LGA-12	4	DMG1012UW	T5, T6, T7, T8	Transistor MOSFET 1 x N, Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N
TR9909	1	STM-LIS2DE12-LGA-12			STM-LGA-12
1 MHz, 85 µ Quad Op Amp, 14-Pin TSSOP, Extended TSSOP-ST14_N	2			Everlight Opto Interrupter	
MCP6LOT-E/ST			·	1 MHz, 85 µA Quad Op Amp, 14-Pin TSSOP, Extended	
SAPIT Serial-Imput/Serial or Prailel-Output Shift Register with 248F-01_N	2	MCP6L04T-E/ST	U4, U5	Temperature Range, Tape and Reel	
5 SN74HC595PWR U13, U14, U15, U16, U17 Latched 3-State Outputs 948f-01_N AP2112K-3.3TRG1 U18 300mA, Low Oulescent Current, Fast Transient LDO SOT95P285X100-5N General Purpose 16-Bit Flash Microcontroller with USB On-The-GO, 128KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial TGFP-PI64_N 1 PIC24FJ128GB106-I/PT U19 Temperature TGFP-PI64_N 1 IRM-3638T U20 IR Receiver Module (38 kHz) for Remote Control Systems IR-receiver Module (38 kHz) for Remote Control Systems IR-receiver Module (38 kHz) for Remote Control Systems IR-receiver Stand-Alone System Load Sharing and L-Ion/Li-Polymer Battery Charge Management Controller, 4.2V, 20-Pin QFN, Industrial Temperature Of N-ML20_N 3 AP2210K-3.3TRG1 U22, U24, U26 300mA, Low Quiescent Current, Fast Transient LDO SOT95P285X100-5N 1 FAN398B U23 USB/Charger and Over Voltage Detection Device MLP 1-45X1MM 1 LM4819M U25 350mW Audio Power Amplifier with Shutdown Mode M08A_N 1 Con1x6 X2 1x 6 pins connector MHDR1X6 4 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521	7	TTR9909	U6, U7, U8, U9, U10, U11, U12		ITR9909_EDGE
AP2112K-3.3TRG1	-	CNIZALICEGEDINID	1112 1114 1115 1114 1117		0.40F 01 N
PIC24FJ128GB106-I/PT	5	<u> </u>			l
PC24FJ128GB106-I/PT	1	APZTTZK-3.3TRG1	U18		SO 195P285X100-5N
1 PIC24F1126GB106-I/PT U19 Temperature TOFP-PT64_N 1 IRM-3638T U20 IR Receiver Module (38 kHz) for Remote Control Systems Ikr-receiver 1 MCP73871-2CAI/ML U21 Stand-Alone System Load Sharing and Li-lon/Li-Polymer Battery Charge Management Controller, 4.2V, 20-Pin QFN, Industrial Temperature OFN-ML20_N 3 AP2210K-3.3TRG1 U22, U24, U26 300mA, Low Quiescent Current, Fast Transient LDO SO 795P285X100-SN 1 FAN398 U23 USB/Charger and Over Voltage Detection Device MLP 1.45X1MM 1 LM4819M U25 350mW Audio Power Amplifier with Shutdown Mode M08A_N 1 Con1x6 X2 1 x 6 pins connector MHDR1X6 4 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521				Go. 128KB Flash, 16KB SRAM, 64-Pin TOFP, Industrial	
IRM-3638T U20 IR Receiver Module (38 kHz) for Remote Control Systems R-receiver	1	PIC24FJ128GB106-I/PT	U19		TQFP-PT64_N
Stand-Alone System Load Sharing and Li-lon/Li-Polymer Battery Charge Management Controller, 4.2V, 20-Pin GFN, Industrial Temperature OFN-ML2_N	1				
1 MCP73871-2CAI/ML U21 Charge Management Controller, 4.2V, 20-Pin QFN, Industrial Temperature QF N-ML20_N 3 AP2210K-3.3TRG1 U22, U24, U26 300mA, Low Quiescent Current, Fast Transient LDO SOT95P285X100-5N 1 FAN398 U23 USB/Charger and Over Voltage Detection Device MLP 1.45X1MM 1 LM4819M U25 350mW Audio Power Ampliffer with Shutdown Mode M08A_N 1 Con1x6 X2 1 x 6 pins connector MHDR1X6 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521				Stand-Alone System Load Sharing and Li-Ion/Li-Polymer Battery	
3 AP2210K-3.3TRG1 U2, U24, U26 300mA, Low Quiescent Current, Fast Transient LDO SOT95P285X100-5N 1 FAN398 U23 USB/Charger and Over Voltage Detection Device MLP 1.45X1MM 1 LM4819M U25 350mW Audio Power Amplifier with Shutdown Mode M08A_N 1 Con1x6 X2 1 x 6 pins connector MHDR1X6 1 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521		AACD72074 20 AUA#	uo.	Charge Management Controller, 4.2V, 20-Pin QFN, Industrial	OFNIAMION N
1 FAN398 U23 USB/Charger and Over Voltage Detection Device MLP 1.45X1MM 1 LM4819M U25 350mW Audio Power Amplifier with Shutdown Mode M08A_N 1 Con1x6 X2 1 x 6 pins connector MHDR1X6 1 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521	1	<u> </u>		'	_
1 LM4819M U25 350mW Audio Power Amplifier with Shutdown Mode M08A_N 1 Con1x6 X2 1 x 6 pins connector MHDR1X6 1 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521	3				
1 Con1x6 X2 1 x 6 pins connector MHDR1X6 1 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521	1				
1 WR-Communication Connectors 629105150521 X3 WR-COM_USB_Micro Type B_Horizontal_SMT 629105150521	1	LM4819M		350mW Audio Power Amplifier with Shutdown Mode	_
	1	Con1x6	X2	1 x 6 pins connector	MHDR1X6
	1	WR-Communication Connectors 629105150521	хз	WR-COM_USB_Micro Type B_Horizontal_SMT	
	1		YI		
		•			

Quantity 1	Comment 1uF	Designator C63	Description Capacitor	Footprint CAPC1005X05N	Layer Bottom
1		R38	120	RESC1005X04N	Bottom
1	100	R105	Resistance Surface Mount Quartz Crystal	RESC1005X04N	Bottom
1	815-ABLS-8-B2	үі	8Mhz 300mA, Low Quiescent	HC49/4H_SMX	Bottom
1		U26	Current, Fast Transient LDO	SOT95P285X100-5N	Bottom
1	Battery connector t 08940-10210	вті	Multicell Battery	BAT-2	Bottom
			1 MHz, 85 μA Quad Op Amp, 14-Pin TSSOP, Extended		
1	MCP6L04T-E/ST	U4	Temperature Range, Tape and Reel	TSSOP-ST14_N	Bottom
2		R4, R6	Resistor	RESC1005X04N	Bottom
2	4.7uF 18pF	C43, C72 C41, C42	Capacitor	CAPC1005X05N CAPC1005X05N	Bottom Bottom
2		R3, R5	120, Resistor	RESC1005X04N	Bottom
		R70, R73	82	RESC1005X04N	Bottom
2		R68, R71 U2, U3	200 Everlight Opto Interrupter	RESC1005X04N ITR9909_LONG	Bottom Bottom
	Motor connector 89400- 0220	B1, B2	Motor, General Kind	BAT-2	Bottom
2		D19, D20	Red led 2V@20ma 57mcd	LED_TH_3MM_20MM	Bottom
2	YLL-T50GRB-3-BJ-05	D2, D6		QBLP679E-RGB	Bottom
			8-Bit Serial-Input/Serial or Prallel-Output Shift Register		
3	SN74HC595PWR	U13, U15, U17	with Latched 3-State Outputs		Bottom
4	0 1K	R160, R161, R168, R169 R21, R22, R23, R24	Resistor 120	RESC1005X04N RESC1005X04N	Bottom Bottom
		R17, R18, R19, R20	120	RESC1005X04N	Bottom
4		R7, R8, R9, R10	120	RESC1005X04N	Bottom
		R151, R152, R153, R154	Resistor SMD EMI Suppression Ferrite	RESC1005X04N	Bottom
	2508056017Y2	L1, L2, L3, L4	Bead WE-CBF, Z = 600 Ohm Transistor MOSFET 1 x N,	INDC2012X11L	Bottom
4	DMG1012UW	T5, T6, T7, T8	Pining : 1=G, 2=S, 3=D Transistor MOSFET 1 x P	SOT65P210X100-3N	Bottom
4	DMG1013UW-7	T1, T2, T3, T4	Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N	Bottom
5	10uF 4.7nF	C40, C51, C52, C73, C78 C15, C16, C17, C18, C19, C20, C21	Capacitor Capacitor	CAPC1005X05N CAPC1005X05N	Bottom Bottom
8		C15, C16, C17, C18, C17, C20, C21 R12, R13, R14, R15, R16, R33, R44, R45	120, Resistor	RESC1005X04N	Bottom
8	10K	R27, R28, R29, R30, R31, R50, R51, R136	120, Resistor	RESC1005X04N	Bottom
8		R82, R83, R84, R85, R95, R96, R97, R133 R69, R72, R74, R75, R76, R77, R90, R91	Resistor 56, Resistor	RESC1005X04N RESC1005X04N	Bottom Bottom
			SMD Red led right angle		
		D9, D10, D11, D12, D17, D18, D25, D26, D35 R119, R120, R121, R122, R123, R124, R155, R156, R157, R158	mount 2V@20ma 57mcd Resistor	27-21 EVERLIGHT RESC1005X04N	Bottom Bottom
		R1, R2, R57, R59, R61, R63, R64, R65, R111, R112, R113, R114	Resistor	RESC1005X04N	Bottom
14	BC817-40	Q1, Q2, Q3, Q4, Q7, Q12, Q19, Q20, Q22, Q25, Q26, Q28, Q47, Q48	NPN General-purpose Transistor	SOT23_N	Bottom
17	100nF	C5, C7, C8, C9, C14, C22, C25, C26, C28, C30, C55, C68, C69, C70, C71, C74, C75	Capacitor	CAPC1005X05N	Bottom
1		C57 R127	Capacitor Resistor	CAPC1005X05N RESC1005X04N	Тор Тор
1		C34	Capacitor	CAPC1005X05N	Тор
1		R132	Resistor	RESC1005X04N	Тор
1		R140 R125	Resistor Resistor	RESC1005X04N RESC1005X04N	Тор Тор
1		R131	Resistor	RESC1005X04N	Тор
1	2508056017Y2	L5	SMD EMI Suppression Ferrite Bead WE-CBF, Z = 600 Ohm	INDC2012X11L	Тор
1	AP2112K-3.3TRG1	U18	300mA, Low Quiescent Current, Fast Transient LDO	SOT95P285X100-5N	Тор
1		x2	1 x 6 pins connector	MHDR1X6	Тор
1	FAN3988	U23	USB/Charger and Over Voltage Detection Device	MLP 1.45X1MM	Тор
1	IRM-3638T	U20	IR Receiver Module (38 kHz) for Remote Control Systems	IR-receiver	Тор
			350mW Audio Power Amplifier with Shutdown		
1	LM4819M	U25	Mode	M08A_N	Тор
			1 MHz, 85 µA Quad Op Amp, 14-Pin TSSOP, Extended		
1	MCP6L04T-E/ST	U5	Temperature Range, Tape and Reel	TSSOP-ST14_N	Тор
			Stand-Alone System Load		
			Sharing and Li-lon/Li-Polymer Battery Charge Management		
1	MCP73871-2CAI/ML	U21	Controller, 4.2V, 20-Pin QFN, Industrial Temperature	QFN-ML20_N	Тор
1	MicroSD-Astron	S1	MicroSD Card connector 5190008-XA4-R	Astron 5190008-XA4-R	Тор
<u> </u>			Thermistors - NTC 10K OHM		
1	NCP15XH103F03RC	RTI	1% 0402 General Purpose 16-Bit Flash	RESC1005X04L	Тор
			Microcontroller with USB On- The-Go, 128KB Flash, 16KB		
1	PIC24FJ128GB106-I/PT	U19	SRAM, 64-Pin TQFP, Industrial Temperature	TQFP-PT64_N	Тор
1	Speaker	LS1	Loudspeaker	PIN2	Тор
1	STM-LIS2DE12-LGA-12 SW-PB	U1 S2	Switch	STM-LGA-12 FSMRA2JH	Top Top
<u> </u>			Omnidirectional Back Electret		
1		мс1	Omnidirectional Back Electret Condenser Microphone	MICRO_TD4015BPN	Тор
	WR-Communication Connectors		WR-COM_USB_Micro Type		
1 2	629105150521 0	X3 R172, R173	B_Horizontal_SMT Resistor	629105150521 RESC1005X04N	Тор Тор
_	1nF	C53, C54	Capacitor	CAPC1005X05N	Тор
		C56, C61	Capacitor	CAPC1005X05N	Тор
		R115, R116 C4, C64	Resistor Capacitor	RESC1005X04N CAPC1005X05N	Тор Тор
2	82	R100, R149	82	RESC1005X04N	Тор
		R107, R137	Resistor	RESC1005X04N	Тор
		R99, R148	200 300mA, Low Quiescent	RESC1005X04N	Тор
	AP2210K-3.3TRG1	U22, U24	Current, Fast Transient LDO Schottky Barrier Double	SOT95P285X100-5N	Тор
2		D33, D34	Diode	SOT23_N	Top
2	QBLP679E-RGB	D27, D38		QBLP679E-RGB	Тор
			8-Bit Serial-Input/Serial or Prallel-Output Shift Register		
2		U14, U16	with Latched 3-State Outputs		Top
3		R26, R46, R47 C2, C31, C46	120 Capacitor	RESC1005X04N CAPC1005X05N	Тор Тор
2		D8, D31, D37	SMD Blue led right angle mount 3.3V@20ma 28mcd	27-21 Everlight Blue	Тор
		D7, D32, D36	SMD Red led right angle mount 2V@20ma 57mcd	27-21 EVERLIGHT	Тор
3		C58, C59, C60	Capacitor	CAPC1005X05N	Тор
3		R106, R135, R150	Resistance, Resistor	RESC1005X04N	Тор
3		D28, D29, D30	LED standard - CMS Helios SMD Green 570nm 230mcd	DIOC1608X08N	Тор
4	19-21SURC/S530- A3/TR8	D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N	Тор
5		R138, R139, R141, R143, R159	Resistor	RESC1005X04N	Тор
6	1K 4.7K	R25, R48, R49, R108, R166, R167 R92, R93, R94, R144, R145, R146	120, Resistor Resistor	RESC1005X04N RESC1005X04N	Тор Тор

Quantity	Comment	Designator	Description	Footprint	Layer
6	6.2	R36, R37, R39, R40, R54, R55	120	RESC1005X04N	Тор
6	22K	R11, R42, R43, R67, R130, R142	120, Resistor	RESC1005X04N	Тор
6	39	R66, R86, R87, R88, R89, R134	Resistor	RESC1005X04N	Тор
7	4.7uF	C32, C44, C45, C47, C48, C49, C50	Capacitor	CAPC1005X05N	Тор
7	ITR9909	U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE	Тор
8	10K	R101, R102, R109, R110, R117, R118, R128, R129	Resistor	RESC1005X04N	Тор
8	APTD1608SYCK	D13, D14, D15, D16, D21, D22, D23, D24	LED standard - CMS Helios SMD Yellow 590nm 480mcd	DIOC1608X08N	Тор
9	2.2K	R32, R34, R35, R41, R52, R53, R103, R104, R126	Resistor	RESC1005X04N	Тор
10	56	R56, R58, R60, R62, R78, R79, R80, R81, R98, R147	Resistor, 56	RESC1005X04N	Тор
21	100nF	C1, C3, C6, C10, C11, C12, C13, C23, C24, C27, C29, C33, C35, C36, C37, C38, C39, C62, C65, C66, C67	Capacitor	CAPC1005X05N	Тор
22	BC817-40	O5, Q6, Q8, Q9, Q10, Q11, Q13, Q14, Q15, Q16, Q17, Q18, Q31, Q32, Q34, Q37, Q38, Q39, Q40, Q42, Q45, Q46	NPN General-purpose Transistor	SOT23_N	Тор