



O	Annual Control	Lang.	Designation	Description	Sustain
Quantity	Comment Motor connector 89400-0220	LibRef	Designator B1, B2	Description Motor, General Kind	Footprint BAT-2
1	Battery connector 89400-0220	Battery	BT1	Multicell Battery	BAT-2
			C1, C3, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C22, C23, C24, C25, C26, C27, C28, C29, C30, C33, C35, C36,		
36	100nF	100nF[[/\]]0603[[/\]]1	C37, C38, C39, C55, C62, C65, C66, C67, C68, C69, C70, C71	Capacitor	CAPC1608X08L
		10UF[[/\]]0603[[/\]]1,			
		10uF[[\]]0603[[\]]1, 4.7uF[[\]]0603[[\]]1,			
		10uF[[\]]0603[[\]]1, 10uF[[\]]0603[[\]]1,			
		10uF[[\]0603[[\]1, 4.7uF[[\]0603[[\]1,			
8		10uF[[/\]]0603[[/\]]1	C2, C4, C32, C46, C51, C52, C72, C73	Capacitor	CAPC1608X08L
, g	4.7nF	CAP-NP 4.7uF[[\\]]0603[[\\]]1	C15, C16, C17, C18, C19, C20, C21 C31, C40, C43, C44, C45, C47, C48, C49, C50	Capacitor	CAPC1608X08L CAPC1608X08L
1	10uF X5R	10uF[[/\]]0603[[/\]]1	C34	Capacitor	CAPC1608X08L
2	17F:	10pF[[/\]]0603[[/\]]3	C41, C42		CAPC1608X08L
	1nF	100nF[[/\]]0603[[/\]]1 4.7uF[[/\]]0603[[/\]]1,	C53, C54	Capacitor	CAPC1608X08L
3	1uF	1uF[[/\]]0603[[/\]]1, 1uF[[/\]]0603[[/\]]1	C56, C61, C63	Capacitor	CAPC1608X08L
1	1.5nF	10nF[[/\]]0603[[/\]]1	C57	Capacitor	CAPC1608X08L
		470nF[[/\]]0603[[/\]]1,			
3	47nF	10nF[[/\]]0603[[/\]]1, 470nF[[/\]]0603[[/\]]1	C58, C59, C60	Capacitor	CAPC1608X08L
1	51pF	10nF[[/\]]0603[[/\]]1	C64	Capacitor	CAPC1608X08L
4	19-21SURC/S530-A3/TR8 BT5050RGBC-T180	LED RGB SMD 2	D1, D3, D4, D5 D2, D6, D27, D38	SMD Red 0603 2V@20ma 56 mcd \$0.027/2000k	DIOC1608X08N LEDSMD5
			D7, D9, D10, D11, D12, D17, D18, D25, D26, D32, D35,		
12	27-21SURC/S530-A3 27-21/BHC-AN1P2/3C	LED	D8, D31, D37	SMD Red led right angle mount 2V@20ma 57mcd SMD Blue led right angle mount 3.3V@20ma 28mcd	27-21 Everlight 27-21 Everlight Blue
				LED standard - CMS Helios SMD Yellow 590nm	-
8	APTD1608SYCK WP7104SRC/D	LED	D13, D14, D15, D16, D21, D22, D23, D24 D19, D20	480mcd Red led 2V@20ma 57mcd	DIOC1608X08N Led_TH_3mm_20mm
	APTD1608CGCK	LED	D28, D29, D30	LED standard - CMS Helios SMD Green 570nm 230mcd	DIOC1608X08N
2	BAT54S	BAT54S	D38, D29, D30 D33, D34	Schottky Barrier Double Diode	SOT23_N
	MLP2520S3R3S	IND	L1, L2, L3, L4	Inductors for Power Circuits Multilayer/ STD Magnetic Shielded	INDC2520X12L
1	Speaker	Speaker	LS1	Loudspeaker	PIN2
1	TD4015BPN	Micro1	MC1	Omnidirectional Back Electret Condenser Microphone	MICRO_TD4015BPN
			Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13,		
			Q14, Q15, Q16, Q17, Q18, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q28, Q29, Q30, Q31, Q32, Q33, Q34, Q35,		
46	BC817-40	BC817-40	Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46 R1, R2, R57, R59, R61, R63, R64, R65, R67, R92, R93,	NPN General-purpose Transistor	SOT23_N
22	4.7K	4.7K[[/\]]0603[[/\]]1	R94, R103, R104, R111, R112, R113, R114, R142, R144, R145, R146	Resistor	RESC1608X06L
		RES, RES, RES, RES, RES, RES,	* *	***	
		RES, RES, RES,			
		RES, RES, 68K[[/]]0603[[/]]1,			
16	33	RES, RES, RES, 68K[[/\]]0603[[/\]]1	R3, R5, R68, R69, R70, R71, R72, R73, R98, R99, R100, R135, R147, R148, R149, R150	120, Resistor, 120, 120, 120, 120, 120, 120, 120, 120	RESC1608X06L
2	2.7K	RES	R4, R6	Resistor	RESC1608X06L
		RES, RES, RES, RES, RES, RES,			
8	3 22K	RES, 22K[[/\]]0603[[/\]]1	R7, R8, R9, R10, R11, R42, R43, R130	120, 120, 120, 120, 120, 120, 120, Resistor	RESC1608X06L
		RES, RES, RES, RES, RES,	, , , , , , ,		
		2.2K[[/\]]0603[[/\]]1,			
		2.2K[[/\]]0603[[/\]]1, 2.2K[[/\]]0603[[/\]]1,			
		2.2K[[\hamma]]0603[[\hamma]]1, 2.2K[[\hamma]]0603[[\hamma]]1,			
		RES, RES, 2.2K[[/\]]0603[[/\]]1,			
15	5 2.2K	2.2K[[/\]]0603[[/\]]1, 2.2K[[/\]]0603[[/\]]1	R12, R13, R14, R15, R16, R32, R33, R34, R35, R41, R44, R45, R52, R53, R126	120, 120, 120, 120, 120, Resistor, Resistor, Resistor, Resistor, Resistor, 120, 120, Resistor, R	RESC1608X06L
7	1.5K	RES	R17, R18, R19, R20, R26, R46, R47	120	RESC1608X06L
		RES, RES, RES, RES, RES, RES,			
,	1K	RES, 1K[[/\]]0603[[/\]]1	R21, R22, R23, R24, R25, R48, R49, R108	120, 120, 120, 120, 120, 120, 120, Resistor	RESC1608X06L
		RES, RES, RES,	,,,,,		
		RES, RES, RES, RES,			
		10K[[/\]]0603[[/\]]2, 10K[[/\]]0603[[/\]]2,			
		10K[[/\]]0603[[/\]]1, 10K[[/\]]0603[[/\]]1,			
		8.2K[[/\]]0603[[/\]]2, 8.2K[[/\]]0603[[/\]]2,			
		10K[[\]]0603[[\]]1, 10K[[\]]0603[[\]]1,	R27, R28, R29, R30, R31, R50, R51, R101, R102, R109,	120, 120, 120, 120, 120, 120, 120, Resistor, R	
16		10K[[/\]]0603[[/\]]2	R110, R117, R118, R128, R129, R136	Resistor	RESC1608X06L
7	6.2	RES	R36, R37, R38, R39, R40, R54, R55 R56, R58, R60, R62, R74, R75, R76, R77, R78, R79, R80,	120	RESC1608X06L
14	56	68K[[/\]]0603[[/\]]1	R81, R90, R91	Resistor	RESC1608X06L
	39	68K[[/\]]0603[[/\]]1	R97, R133, R134	Resistor	RESC1608X06L
2	100	RES_ACORT 180R[[/\]]0603[[/\]]1	R105, R106 R107, R137	Resistance Resistor	RESC1608X06N RESC1608X06L
2	180 2 5.6K	2.2K[[/\]]0603[[/\]]1	R115, R116	Resistor	RESC1608X06L
		100K[[/\]]0603[[/\]]1,			
		100K[[/\]]0603[[/\]]1, 100K[[/\]]0603[[/\]]1,			
		100K[[/\]]0603[[/\]]1,			
		100K[[/\]]0603[[/\]]1, 100K[[/\]]0603[[/\]]1,			
	<u> </u>	100K[[\]0603[[\]]1, 10K[[\]0603[[\]]1,	R119, R120, R121, R122, R123, R124, R138, R139, R141,		
10	100K	100K[[\]0603[[\]]1 470K[[\]0603[[\]]1	R143 R125	Resistor Resistor	RESC1608X06L RESC1608X06L
1	6.8K	10K[[/\]]0603[[/\]]1	R127	Resistor	RESC1608X06L
5	820	22K[[/\]]0603[[/\]]1	R131, R151, R152, R153, R154	Resistor	RESC1608X06L
1	47K 270K	22K[[/\]]0603[[/\]]1	R132 R140	Resistor	RESC1608X06L RESC1608X06L
1	NCP15XH103F03RC	270K[[/\]]0603[[/\]]2 Res Thermal	RT1	Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L
		SD-Card-Micro- ASLTRON 5190008-			
1	MicroSD-Astron 5190008-XA4-R	XA4-R	S1	MicroSD Card connector 5190008-XA4-R	Astron 5190008-XA4-R
1	SW-PB	SW-PB DMG1013T	S2 T1 T2 T3 T4	Switch Transictor MOSFET 1 v P Pining : 1-G, 2-S, 3-D	FSMRA2JH SOT50P160X80-3N
4	DMG1013T DMG1012T	DMG1013T DMG1012T	T1, T2, T3, T4 T5, T6, T7, T8	Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D Transistor MOSFET 1 x N, Pining : 1=G, 2=S, 3=D	SOT50P160X80-3N SOT50P160X80-3N
1	MMA7660FC	MMA7660FC	U1	MMA7660FC: XYZ-AXIS ACCELEROMETER ±1.5 g	DFN50P300X300X100-12N
2	ITR9909	ITR9909	U2, U3	Everlight Opto Interrupter 1 MHz. 85 µA Quad Op Amp. 14-Pin TSSOP, Extended	ITR9909_LONG
2	MCP6L04T-E/ST	MCP6L04T-E/ST	U4, U5	Temperature Range, Tape and Reel	TSSOP-ST14_N
7	TR9909	ITR9909	U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter 8-Bit Senai-input/Senai or Prailei-Output Sniit Register	ITR9909_EDGE
5		MC74HC595ADTR2	U13, U14, U15, U16, U17	with Latched 3-State Outputs	948F-01_N
4	AP7331-33WG-7	AP7331	U18, U22, U24, U26	300mA, Low Quiescent Current, Fast Transient LDO General Purpose 16-Bit Flash Microcontroller with USB	SOT95P285X100-5N
	PIC24FJ128GB106-I/PT	PIC24FJ128GB106- I/PT	U19	On-The-Go, 128KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial Temperature	TQFP-PT64_N
				IR Receiver Module (36 KHz) for Remote Control	
1	IRM-3636T	TSOP32236	U20	Systems Stand-Alone System Load Snaring and Li-lon/Li-Polymer	IR-receiver
1	MCP73871-2AAI/ML	MCP73871-2AAI/ML	U21	Battery Charge Management Controller, 4.2V, 20-Pin QFN, Industrial Temperature	QFN-ML20_N
1	FAN3988	FAN3988	U23	USB/Charger and Over Voltage Detection Device	MLP 1.45x1mm
1	LM4819M	LM4819M	U25	350mW Audio Power Amplifier with Shutdown Mode	M08A_N
1	Con1x6 Alstron R3190005-021-R	Con1x6 USB_MINIAB	X2 X3	1 x 6 pins connector USB connector Micro B	MHDR1X6 Astron 3190005-x21-r
1	815-ABLS-8-B2	HC49/4H_SMX	Y1	Surface Mount Quartz Crystal 8Mhz	HC49/4H_SMX
				·	

antity	Comment	LibRef	Designator	Description	Footprint	Layer
1	100	RES_ACCO RT	R105	Resistance	RESC1608X06N	Bottom
1	1uF	TUF[[/\]]0 603[[/\]]1	C63	Capacitor	CAPC1608X08L	Bottom
1	6.2	RES	R38	120	RESC1608X06L	Bottom
		HC49/4H		Surface Mount Quartz		
1	815-ABLS-8-B2	_SMX	Y1	Crystal 8Mhz 300ma, Low Quiescent	HC49/4H_SMX	Bottom
1	AP7331-33WG-7	AP7331	U26	Current, Fast Transient LDO	SOT95P285X100-5N	Bottom
1	Battery connector 89400-0220	Battery	BT1	Multicell Battery	BAT-2	Bottom
1	MCP6L04T-E/ST	MCP6L04 T-E/ST	U4	T MHZ, 85 µA Quad Op Amp, 14-Pin TSSOP, Extended Temperature Range, Tape and Reel	TSSOP-ST14_N	Bottom
12	4.7K		R1, R2, R57, R59, R61, R63, R64, R65, R111, R112, R113, R114	Resistor	RESC1608X06L	Bottom
15	100nF	100nF[[/\]]0603[[/\]] 1	C5, C7, C8, C9, C14, C22, C25, C26, C28, C30, C55, C68, C69, C70, C71	Capacitor	CAPC1608X08L	Bottom
18	BC817-40	BC817-40	Q1, Q2, Q3, Q4, Q7, Q12, Q19, Q20, Q21, Q22, Q23, Q24, Q25, Q26, Q27, Q26, Q29, Q30	NPN General-purpose Transistor	SOT23_N	Bottom
	40-5	10pF[[/\]] 0603[[/\]]	04.00		CARCACOONOOL	D-#
	18pF 2.7K	RES	C41, C42 R4, R6	Resistor	CAPC1608X08L RESC1608X06L	Bottom
	Z./ N	4.7UF[[/\]]	INT, NO	i vealStUI	NEOC1000AUBL	DULUIII
2	4.7uF	0603[[/\]] 1	C40, C43	Capacitor	CAPC1608X08L	Bottom
2	BT5050RGBC-T180	SMD 2	D2, D6	\$0.027/2000k	LEDSMD5	Bottom
2	ITR9909	ITR9909	U2, U3	Everlight Opto Interrupter	ITR9909_LONG	Bottom
2	Motor connector 89400-0220	Motor	B1, B2	Motor, General Kind	BAT-2	Bottom
2	WP7104SRC/D	LED	D19, D20	Red led 2V@20ma 57mcd	Led_TH_3mm_20mm	Bottom
	MC74HC595ADTR2	MC74HC5	U13, U15, U17	8-Bit Senai-input/Senai or Prallel-Output Shift Register with Latched 3- State Outputs	948F-01_N	Bottom
4	1.5K	RES	R17, R18, R19, R20	120	RESC1608X06L	Bottom
		10uF[[/\]] 0603[[/\]] 1, 10uF[[/\]] 0603[[/\]] 1, 4.7uF[[/\]] 0603[[/\]] 1, 10uF[[/\]] 0603[[/\]]				
4	10uF	1	C51, C52, C72, C73	Capacitor	CAPC1608X08L	Bottom
4	1K	RES	R21, R22, R23, R24	120	RESC1608X06L	Bottom
4	22K	RES 22KJJ/\JJU	R7, R8, R9, R10	120	RESC1608X06L	Bottom
4	820	22K[[/\]]0 603[[/\]]1 DMG1012	R151, R152, R153, R154	Resistor Transistor MOSFETTX N,	RESC1608X06L	Bottom
4	DMG1012T	Т	T5, T6, T7, T8	Pining: 1=G, 2=S, 3=D	SOT50P160X80-3N	Bottom
4	DMG1013T	DMG1013 T	T1, T2, T3, T4	Pining: 1=G, 2=S, 3=D	SOT50P160X80-3N	Bottom
4	MLP2520S3R3S	IND	L1, L2, L3, L4	Inductors for Power Circuits Multilayer/STD Magnetic Shielded	INDC2520X12L	Bottom
6	100K	100K[[/\]] 0603[[/\]] 1	R119, R120, R121, R122, R123, R124	Resistor	RESC1608X06L	Bottom
6	56	68K[[/\]]0 603[[/\]]1	R74, R75, R76, R77, R90, R91	Resistor	RESC1608X06L	Bottom
7	4.7nF	CAP-NP	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC1608X08L	Bottom
		RES, RES, RES, RES.				

6			R74, R75, R76, R77, R90, R91	Resistor		Bottom
7	4.7nF	CAP-NP RES,	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC1608X08L	Bottom
		RES, RES, RES,				
		RES, RES,				
8		RES, 10K[[/\]]0	R27, R28, R29, R30, R31, R50, R51, R136	120, 120, 120, 120, 120, 120, 120, Resistor	RESC1608X06L	Bottom
8		RES,	, -, -, -, -, -, -, -, -, -, -, -, -, -,	, .zo, resistor		_ 500/11
		RES, RES, RES,				
		RES, 2.2K[[/\]]0				
8	2.2K	603[[/\]]1,	R12, R13, R14, R15, R16, R33, R44, R45	120, 120, 120, 120, 120, Resistor, 120, 120	RESC1608X06L	Bottom
8	33	RES 68KII/\IIU	R3, R5, R69, R69, R70, R71, R72, R73	120, Resistor, 120, 120, 120, 120, 120, 120	RESC1608X06L	Bottom
_	27-21SURC/ S530-		R82, R83, R84, R85, R95, R96, R97, R133	Resistor		Bottom
9	A3	TONF[[/\]]	D9, D10, D11, D12, D17, D18, D25, D26, D35	mount 2V@20ma 57mcd	27-21 Everlight	Bottom
	1.5nF	0603[[/\]] 1 RES_ACO	C57	Capacitor	CAPC1608X08L	Тор
1	100	RT TOUF[[/\]]	R106	Resistance	RESC1608X06N	Тор
1	10uF X5R	0603[[/\]] 1 270K[[/\]]	C34	Capacitor	CAPC1608X08L	Тор
1	270K	0603[[/\]] 2	R140	Resistor	RESC1608X06L	Тор
			R132	Resistor	RESC1608X06L	Тор
1	51pF	10nF[[/\]] 0603[[/\]] 1	C64	Capacitor	CAPC1608X08L	Тор
		10K[[/\]]0 603[[/\]]1	R127	Resistor	RESC1608X06L	Тор
,		470K[[/\]] 0603[[/\]] 1	R125	Resistor	RESC1608X06L	Тор
	820		R131	Resistor	RESC1608X06L RESC1608X06L	Тор
-	Alstron R3190005- 021-R	USB_MINI AB	хз	USB connector Micro B	Astron 3190005-x21-r	Тор
1	Con1x6	Con1x6	X2	1 x 6 pins connector USB/ Charger and Over	MHDR1X6	Тор
1	FAN3988	FAN3988 TSOP322	U23	Voltage Detection Device IR Receiver Module (36 kHz) for Remote Control	MLP 1.45x1mm	Тор
1	IRM-3636T	TSOP322 36	U20	Systems 350mw Audio Power	IR-receiver	Тор
1	LM4819M	LM4819M	U25	Amplifier with Shutdown Mode	M08A_N	Тор
		MCP6L04		т мнz, 85 µA Quad Ор Amp, 14-Pin TSSOP, Extended Temperature		
1	MCP6L04T-E/ST	T-E/ST	us .	Range, Tape and Reel Stand-Alone System Load	TSSOP-ST14_N	Тор
[MCP7387		Sharing and Li-lon/Li- Polymer Battery Charge Management Controller,		
1	MCP73871-2AAI/ML	1-	U21	Management Controller, 4.2V, 20-Pin QFN, Industrial Temperature	QFN-ML20_N	Тор
		SD-Card- Micro-				
	MicroSD-Astron	ASLTRON 5190008-		MicroSD Card connector		
1	5190008-XA4-R	XA4-R	S1	5190008-XA4-R MMA7660FC: XYZ-AXIS		Тор
	MMA7660FC NCP15XH1U3FU3R	MMA7660 FC Res	U1	ACCELEROMETER ±1.5 9 Thermistors - NTC TUK	12N	Тор
1		Thermal	RT1	OHM 1% 0402 General Purpose 16-Bit	RESC1005X04L	Тор
		PIC24FJ1		Flash Microcontroller with USB On-The-Go, 128KB Flash, 16KB SRAM, 64-Pin		
1	PIC24FJ128GB106- I/PT	PIC24FJ1 28GB106- I/PT	U19	Flash, 16KB SRAM, 64-Pin TQFP, Industrial Temperature	TQFP-PT64_N	Тор
	Speaker SW-PB		LS1 S2	Loudspeaker Switch	PIN2 FSMRA2JH	Тор
				Omnidirectional Back Electret Condenser		
1	TD4015BPN		MC1	Microphone	MICRO_TD4015BPN	Тор
10	4.7K	180K[[/\]]	R67, R92, R93, R94, R103, R104, R142, R144, R145, R146	Resistor	RESC1608X06L	Тор
2	180	0603[[/\]] 1	R107, R137	Resistor	RESC1608X06L	Тор
	1nF	100nF[[/\]]0603[[/\]] 1	C53, C54	Capacitor	CAPC1608X08L	Тор
		1 4.7uF[[/\]] 0603[[/\]]			, woll	<u> </u>
_	1uF	1, 1uF[[/\]]0	C56, C61	Capacitor	CAPC1608X08L	Тор
				Capacitor		Тор
			R115, R116	Resistor Schottky Barrer Double		Тор
	BAT54S BT5050RGBC-T180	LED RGB	D33, D34 D27, D38	Diode \$0.027/2000k		Тор Тор
2				8-Bit Senai-Input/Senai or Prallel-Output Shift	5	1.5
2			U14, U16	Register with Latched 3- State Outputs	948F-01_N	Тор
21	100nF	100nF[[/\]]0603[[/\]] 1	C1, C3, C6, C10, C11, C12, C13, C23, C24, C27, C29, C33, C35, C36, C37, C38, C39, C62, C65, C66, C67	Capacitor	CAPC1608X08L	Тор
28	BC817-40		Q5, Q6, Q8, Q9, Q10, Q11, Q13, Q14, Q15, Q16, Q17, Q18, Q31, Q32, Q33, Q34, Q35, Q36, Q37, Q38, Q39, Q40, Q41, Q42, Q43, Q44, Q45, Q46	NPN General-purpose Transistor	SOT23_N	Тор
	1.5K	RES	R26, R46, R47	120	RESC1608X06L	Тор
3	27-21/BHC- AN1P2/3C 27-21SURC/S530-	LED	D8, D31, D37	SMD Blue led right angle mount 3.3V@20ma 28mcd SMD Red led right angle	27-21 Everlight Blue	Тор
3	A3	47UnFII/\I	D7, D32, D36	SMD Red led right angle mount 2V@20ma 57mcd	27-21 Everlight	Тор
]0603[[/\]] 1,				
		10nF[[/\]] 0603[[/\]] 1,				
		470nF[[/\]]0603[[/\]]	rsa rsa rsa	Cancelle -	CADC400000	Ten
	47nF	1	CS8, CS9, C60	Capacitor 300mA, Low Quiescent Current, Fast Transient	CAPC1608X08L	Тор
3	AP7331-33WG-7	AP7331	U18, U22, U24	LDO LED standard - CMS	SOT95P285X100-5N	Тор
3	APTD1608CGCK		D28, D29, D30	Helios SMD Green 570nm 230mcd	DIOC1608X08N	Тор
		100K[[/\]] 0603[[/\]] 1,				
1	<u> </u>	100K[[/\]] 0603[[/\]]		l	1	ı

3	APTD1608CGCK	LED	D28, D29, D30	Helios SMD Green 570nm 230mcd	DIOC1608X08N	Тор
		100K[[/\]] 0603[[/\]]				
		1, 100K[[/\]]				
		0603[[/\]]				
		10K[[/\]]0 603[[/\]]1,				
		100K[[/\]]				
4	100K	0603[[/\]] 1	R138, R139, R141, R143	Resistor	RESC1608X06L	Тор
		10uF[[/\]] 0603[[/\]]				
		1, 10uF[[/\]]				
		0603[[/\]] 1,				
		4.7uF[[/\]] 0603[[/\]]				
		1, 10uF[[/\]]				
4	10uF	0603[[/\]]	C2, C4, C32, C46	Capacitor	CAPC1608X08L	Тор
	19-21SURC/ S530-			SMD Red 0603 2V@20ma		
4	A3/TR8	RES.	D1, D3, D4, D5	56 mcd	DIOC1608X08N	Тор
		RES, RES,				
4	1K	1K[[/\]]06 03[[/\]]1	R25, R48, R49, R108	120, 120, 120, Resistor	RESC1608X06L	Тор
		RES, RES,				
		RES, 22K[[/\]]0				
4	22K	603[[/\]]1	R11, R42, R43, R130	120, 120, 120, Resistor	RESC1608X06L	Тор
6	39	68K[[/\]]0 603[[/\]]1	R66, R86, R87, R88, R89, R134	Resistor	RESC1608X06L	Тор
6	6.2	RES	R36, R37, R39, R40, R54, R55	120	RESC1608X06L	Тор
7	2.2K	2.2K[[/\]]0 603[[/\]]1	R32, R34, R35, R41, R52, R53, R126	Resistor	RESC1608X06L	Тор
		4.7uF[[/\]] 0603[[/\]]				
7	4.7uF	1	C31, C44, C45, C47, C48, C49, C50	Capacitor	CAPC1608X08L	Тор
7	TR9909	ITR9909	U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE	Тор
		10K[[/\]]0				
		10K[[/\]]0 603[[/\]]2, 10K[[/\]]0				
		10K[[/\]]0 603[[/\]]2,				
		10K[[/\]]0 603[[/\]]2, 10K[[/\]]0 603[[/\]]1,				
		10K[[/\]]0 603[[/\]]2, 10K[[/\]]0 603[[/\]]1, 10K[[/\]]0 603[[/\]]1,				
		10K[[/]]0 603[[/]]2, 10K[[/]]0 603[[/]]1, 10K[[/]]0 603[[/]]1, 8.2K[[/]]0 603[[/]]2,				
		10K[[/]]0 603[[/]]2, 10K[[/]]0 603[[/]]1, 10K[[/]]0 603[[/]]1, 8.2K[[/]]0 603[[/]]2, 8.2K[[/]]0				
		10K[[/\]]0 603[[/\]]2, 10K[[/\]]0 603[[/\]]1, 10K[[/\]]0 603[[/\]]1, 8.2K[[/\]]0 603[[/\]]2, 8.2K[[/\]]0 603[[/\]]2, 10K[[/\]]0 603[[/\]]1,				
8	3 10K	10K[[/]]0 603[[/]]2, 10K[[/]]0 603[[/]]1, 10K[[/]]0 603[[/]]1, 8.2K[[/]]0 603[[/]]2, 8.2K[[/]]0 603[[/]]2, 10K[[/]]0 603[[/]]1,	R101, R102, R109, R110, R117, R118, R128, R129	Resistor	RESC1608X06L	Тор
8		10K[[/]]0 603[[/]]2, 10K[[/]]0 603[[/]]1, 10K[[/]]0 603[[/]]2, 8.2K[[/]]0 603[[/]]2, 10K[[/]]0 603[[/]]1, 10K[[/]]0 603[[/]]1, 10K[[/]]0	R101, R102, R109, R110, R117, R118, R128, R129	Résistor	RESC1608X06L	Тор
8		106[[/]]0 603[[/]]2, 106[[/]]0 603[[/]]1, 106[[/]]0 603[[/]]1, 8.24[[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 106[[/]]2, 106[[/]]2, 106[[/]]2, 106[[/]]2, 106[[/]]2, 106[[/]]3, 106[[/]]3, 106[[/]]3, 106[[/]]4, 106[[/]]5, 10	R101, R102, R109, R110, R117, R118, R128, R129	Resistor	RESC1608X06L	Тор
8		104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0	R101, R102, R109, R110, R117, R118, R128, R129	Resistor	RESC1608X06L	Тор
8		104[[/]]0 603[[/]2, 10k[[/]]0 603[[/]]1, 10k[[/]]0 603[[/]]1, 8.2k[[/]]0 603[[/]]2, 8.2k[[/]]0 603[[/]]2, 8.2k[[/]]0 603[[/]]2, 8.2k[[/]]0 603[[/]]2, 8.2k[[/]]0 603[[/]]2, 8.2k[[/]]0 603[[/]]2, 8.2k[[/]]0 603[[/]]1, RES, RES, RES, RES, RES, RES, RES, RES	R101, R102, R109, R110, R117, R118, R128, R129	Resistor	RESC1608X06L	Тор
	1 10K	104[[/]]0 603[[/]2, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, RES, RES, RES, 684[[/]]0, RES, RES, RES, RES, RES, RES, RES, RES		120, 120, 120, Resistor,		
8	110K	104[[/-]]0 603[[/-]2, 104[[/-]]0 603[[/-]2, 104[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]2, 8.24[[/-]]0 603[[/-]3, 8.24[[/-]]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3, 8.24[[/-]0 603[[/-]3]1	R98, R99, R100, R135, R147, R148, R149, R150		RESC1608X06L	Тор
8	1 10K	104[[/]]0 603[[/]]2, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]2, 8.24[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1, 104[[/]]0 603[[/]]1 603[[/]]1		120, 120, 120, Resistor,	RESC1608X06L RESC1608X06L	



