



O	1 Output	LhD-/	Delegate	Description	Francis
Quantity 2	Comment	LibRef	Designator B1, B2	Description Motor, General Kind	Footprint BAT-2
1	Battery	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,		
			C37, C38, C39, C55, C62, C65, C66, C67, C68, C69, C70,		
36	100nF	100nF[[/\]]0603[[/\]]1	C71	Capacitor	CAPC1608X08L
		10uF[[/\]]0603[[/\]]1,			
		4.7uF[[\]]0603[[\]]1, 10uF[[\]]0603[[\]]1,			
		10uF[[\]]0603[[\]]1, 10uF[[\]]0603[[\]]1,			
_		4.7uF[[/\]]0603[[/\]]1,			
8	10uF 4.7nF	10uF[[/\]]0603[[/\]]1 CAP-NP	C2, C4, C32, C46, C51, C52, C72, C73 C15, C16, C17, C18, C19, C20, C21	Capacitor Capacitor	CAPC1608X08L CAPC1608X08L
9	4.7uF	4.7uF[[/\]]0603[[/\]]1	C31, C40, C43, C44, C45, C47, C48, C49, C50	Capacitor	CAPC1608X08L
1	10uF X5R	10uF[[/\]]0603[[/\]]1	C34	Capacitor	CAPC1608X08L
2	18pF	10pF[[/\]]0603[[/\]]3	C41, C42		CAPC1608X08L
2	1nF	100nF[[/\]]0603[[/\]]1	C53, C54	Capacitor	CAPC1608X08L
		4.7uF[[/\]]0603[[/\]]1, 1uF[[/\]]0603[[/\]]1,			
3	1uF	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	LED	D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N
4	BT5050RGBC-T180	LED RGB SMD 2	D2, D6, D27, D38	\$0.027/2000k	LEDSMD5
12	27-21SURC/S530-A3	LED	D36	SMD Red led right angle mount 2V@20ma 57mcd	27-21 Everlight
3	27-21/BHC-AN1P2/3C	LED	D8, D31, D37	SMD Blue led right angle mount 3.3V@20ma 28mcd	27-21 Everlight Blue
	APTD1608SYCK	LED	D13, D14, D15, D16, D21, D22, D23, D24	LED standard - CMS Helios SMD Yellow 590nm 480mcd	DIOC1608X08N
2	WP7104SRC/D	LED	D19, D20	Red led 2V@20ma 57mcd	Led_TH_3mm_20mm
3	APTD1608CGCK	LED BAT54S	D28, D29, D30 D33, D34	LED standard - CMS Helios SMD Green 570nm 230mcd	
2	BAT54S			Schottky Barrier Double Diode Inductors for Power Circuits Multilayer/ STD Magnetic	SOT23_N
4	MLP2520S3R3S	IND	L1, L2, L3, L4	Shielded	INDC2520X12L
1	Speaker TD4015BPN	Speaker Micro1	LS1 MC1	Loudspeaker Omnidirectional Back Electret Condenser Microphone	PIN2
1	I LAUTODEN	IVIICIU I		On inclined to the control of the co	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
			R94, R103, R104, R111, R112, R113, R114, R142, R144,		
22	4.7K	4.7K[[\\]]0603[[\\]]1 RES, RES, RES,	R145, R146	Resistor	RESC1608X06L
		RES, RES, RES,			
		RES, RES, RES, RES, RES,			
		68K[[/\]]0603[[/\]]1, RES, RES, RES,	R3, R5, R68, R69, R70, R71, R72, R73, R98, R99, R100,	120, Resistor, 120, 120, 120, 120, 120, 120, 120, 120	
16	33	68K[[/\]]0603[[/\]]1	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	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,	10, 10, 10, 110, 111, 112, 110, 1110	120, 120, 120, 120, 120, 120, 120, 100000	TECO1000A0E
		RES, RES, 2.2K[[\]]0603[[\]]1,			
		2.2K[[/\]]0603[[/\]]1,			
		2.2K[[\\]]0603[[\\]]1, 2.2K[[\\]]0603[[\\]]1,			
		2.2K[[∧]]0603[[∧]]1, RES, RES,			
		2.2K[[/\]]0603[[/\]]1.			
15	2.2K	2.2K[[\hamma]]0603[[\hamma]]1, 2.2K[[\hamma]]0603[[\hamma]]1	R12, R13, R14, R15, R16, R32, R33, R34, R35, R41, R44, R45, R52, R53, R126		RESC1608X06L
7	1.5K	RES	R17, R18, R19, R20, R26, R46, R47	120	RESC1608X06L
		RES, RES, RES,			
		RES, RES, RES, RES,			
8	1K	1K[[/\]]0603[[/\]]1	R21, R22, R23, R24, R25, R48, R49, R108	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[[\hat\]]0603[[\hat\]]2, 8.2K[[\hat\]]0603[[\hat\]]2,			
		10K[[/\]]0603[[/\]]1,		120, 120, 120, 120, 120, 120, 120, Resistor, Resistor,	
16	10K	10K[[\]0603[[\]1, 10K[[\]0603[[\]2	R27, R28, R29, R30, R31, R50, R51, R101, R102, R109, R110, R117, R118, R128, R129, R136	Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor	RESC1608X06L
	6.2	RES	R36, R37, R38, R39, R40, R54, R55	120	RESC1608X06L
			R56, R58, R60, R62, R74, R75, R76, R77, R78, R79, R80,		
	56	68K[[/\]]0603[[/\]]1	R81, R90, R91 R66, R82, R83, R84, R85, R86, R87, R88, R89, R95, R96,	Resistor	RESC1608X06L
	39	68K[[/\]]0603[[/\]]1	R97, R133, R134	Resistor	RESC1608X06L
2	100	RES_ACORT	R105, R106	Resistance	RESC1608X06N RESC1608X06L
2	180 5.6K	180R[[\]]0603[[\]]1 2.2K[[\]]0603[[\]]1	R107, R137 R115, R116	Resistor	RESC1608X06L RESC1608X06L
		100K[[/\]J0603[[/\]J1,			
		100K[[\]0603[[\]]1, 100K[[\]0603[[\]]1,			
		100K[[/\]]0603[[/\]]1,			
		100K[[\]0603[[\]]1, 100K[[\]0603[[\]]1,			
		100K[[\]0603[[\]]1, 100K[[\]0603[[\]]1,			
	100K	10K[[/\]]0603[[/\]]1,	R119, R120, R121, R122, R123, R124, R138, R139, R141,	Pacietor	PESC1609Y061
10	100K 680K	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	22K[[/\]]0603[[/\]]1	R132	Resistor	RESC1608X06L
1	270K	270K[[/\]]0603[[/\]]2	R140	Resistor	RESC1608X06L
1	NCP15XH103F03RC	Res Thermal SD-Card-Micro-	RT1	Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L
		ASLTRON 5190008-	L		
1	MicroSD-Astron 5190008-XA4-R	XA4-R	S1 S2	MicroSD Card connector 5190008-XA4-R Switch	Astron 5190008-XA4-R
1	SW-PB DMG1013T	SW-PB DMG1013T	S2 T1, T2, T3, T4	Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D	FSMRA2JH SOT50P160X80-3N
	DMG1013T	DMG10131	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
1	MMA7660FC	MMA7660FC	U1	MMA7660FC: XYZ-AXIS ACCELEROMETER ±1.5 g	DFN50P300X300X100-12N
2	ITR9909	ITR9909	U2, U3	Everlight Opto Interrupter	ITR9909_LONG
	MCP6L04T-E/ST	MCP6L04T-E/ST	U4, U5	1 MHz, 85 µA Quad Op Amp, 14-Pin TSSOP, Extended	TSSOP-ST14_N
7	ITR9909	MCP6L041-E/S1 ITR9909	U6, U7, U8, U9, U10, U11, U12	Temperature Range, Tape and Reel Everlight Opto Interrupter	ITR9909_EDGE
				8-Bit Senai-Input/Senai or Prailei-Output Snift Register	_
5	MC74HC595ADTR2	MC74HC595ADTR2	U13, U14, U15, U16, U17	with Latched 3-State Outputs	948F-01_N
- 1	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-	L	On-The-Go, 128KB Flash, 16KB SRAM, 64-Pin TQFP,	
-	PIC24FJ128GB106-I/PT	I/PT	U19	Industrial Temperature	TQFP-PT64_N
1		TSOP32236	U20	Systems	IR-receiver
1	IRM-3636T	1001 32230		Stand-Alone System Load Sharing and Li-lon/ Li-Polymer	
1	IRM-3636T	1301 32230		Battery Charge Management Controller 4 9V 20, Din	
1 1	IRM-3636T MCP73871-2AAI/ML	MCP73871-2AAI/ML	U21	Battery Charge Management Controller, 4.2V, 20-Pin QFN, Industrial Temperature	QFN-ML20_N
1 1 1	MCP73871-2AAI/ML FAN3988	MCP73871-2AAI/ML FAN3988	U23	QFN, Industrial Temperature USB/Charger and Over Voltage Detection Device	MLP 1.45x1mm
1 1 1 1	MCP73871-2AAI/ML FAN3988 LM4819M	MCP73871-2AAI/ML FAN3988 LM4819M	U23 U25	QFN, Industrial Temperature USB/Charger and Over Voltage Detection Device 350mW Audio Power Amplifier with Shutdown Mode	MLP 1.45x1mm M08A_N
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MCP73871-2AAI/ML FAN3988 LM4819M Con1x6	MCP73871-2AAI/ML FAN3988 LM4819M Con1x6	U23 U25 X2	QFN, Industrial Temperature USB/ Charger and Over Voltage Detection Device 350mW Audio Power Amplifier with Shutdown Mode 1 x 6 pins connector	MLP 1.45x1mm M08A_N MHDR1X6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MCP73871-2AAI/ML FAN3988 LM4819M	MCP73871-2AAI/ML FAN3988 LM4819M	U23 U25	QFN, Industrial Temperature USB/Charger and Over Voltage Detection Device 350mW Audio Power Amplifier with Shutdown Mode	MLP 1.45x1mm M08A_N

antity	Comment	LibRef	Designator	Description	Footprint	Layer
1	100	RES_ACC RT	R105	Resistance	RESC1608X06N	Bottom
		TUF[[/\]]O				
1	1uF 6.2	603[[/\]]1 RES	C63	Capacitor 120	CAPC1608X08L 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	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	4.7K[[/\]]0 603[[/\]]1	R1, R2, R57, R59, R61, R63, R64, R65, R111, R112, R113, R114	Resistor	RESC1608X06L	Bottom
15	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, Q28, Q29, Q30	NPN General-purpose Transistor	SOT23_N	Bottom
2	18pF	10pF[[/\]] 0603[[/\]] 3	C41, C42		CAPC1608X08L	Bottom
		RES	R4, R6	Resistor	RESC1608X06L	Bottom
		4.7UF[[/\]]				-
2	4.7uF	0603[[/\]] 1	C40, C43	Capacitor	CAPC1608X08L	Bottom
		LED RGB SMD 2	D2, D6		LEDSMD5	Bottom
	BT5050RGBC-T180 ITR9909	ITR9909	U2, U3	\$0.027/2000k Everlight Opto Interrupter	ITR9909_LONG	Bottom
					_	
2	WP7104SRC/D	LED	D19, D20	Red led 2V@20ma 57mcd 8-Bit Senai-Input/Senai or	Led_TH_3mm_20mm	Bottom
2	MC74HC595ADTR2	MC74HC5 95ADTR2	U13, U15, U17	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[[/\]]				
4	10uF	0603[[/\]] 1	C51, C52, C72, C73	Capacitor	CAPC1608X08L	Bottom
4	1K	RES	R21, R22, R23, R24	120	RESC1608X06L	Bottom
4	22K	RES	R7, R8, R9, R10	120	RESC1608X06L	Bottom
4	820	22K[[/\]]0 603[[/\]]1	R151, R152, R153, R154	Resistor	RESC1608X06L	Bottom
4	DMG1012T	DMG1012 T	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
e	56	68K[[/\]]0 603[[/\]]1	R74, R75, R76, R77, R90, R91	Resistor	RESC1608X06L	Bottom
	4.7nF	CAP-NP	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC1608X08L	Bottom
		RES, RES, RES, RES, RES,				
		RES,				

		RES,				
		RES, RES, RES,				
		RES, RES, 10K[[/\]]0		120, 120, 120, 120, 120,		
8	10K	603[[/\]]2	R27, R28, R29, R30, R31, R50, R51, R136	120, 120, Resistor	RESC1608X06L	Bottom
		RES, RES,				
		RES, RES, 2.2K[[/\]]0				
-	2.2K	603[[/\]]1, RES, RES	R12, R13, R14, R15, R16, R33, R44, R45	120, 120, 120, 120, 120, Resistor, 120, 120 120, Resistor, 120, 120,	RESC1608X06L	Bottom
	33	RES 68K[[/\]]0 603[[/\]]1	R3, R5, R68, R69, R70, R71, R72, R73 R82, R83, R84, R85, R95, R96, R97, R133	120, 120, 120, 120 Resistor	RESC1608X06L RESC1608X06L	Bottom Bottom
	27-21SURC/S530- A3	LED LED	D9, D10, D11, D12, D17, D18, D25, D26, D35	SMD Red led right angle mount 2V@20ma 57mcd	27-21 Everlight	Bottom
1	1.5nF	10nF[[/\]] 0603[[/\]] 1	C57	Capacitor	CAPC1608X08L	Тор
1	100	RES_ACCO RT	R106	Resistance	RESC1608X06N	Тор
1	10uF X5R	10uF[[/\]] 0603[[/\]] 1	C34	Capacitor	CAPC1608X08L	Тор
1	270K	270K[[/\]] 0603[[/\]] 2	R140	Resistor	RESC1608X06L	Тор
1	47K	22K[[/\]]0 603[[/\]]1 10nF[[/\]]	R132	Resistor	RESC1608X06L	Тор
1	51pF	0603[[/\]] 1	C64	Capacitor	CAPC1608X08L	Тор
1	6.8K	10K[[/\]]0 603[[/\]]1 470K[[/\]]	R127	Resistor	RESC1608X06L	Тор
1	680K	0603[[/\]] 1	R125	Resistor	RESC1608X06L	Тор
1	820 Aistron R3190005-	22K[[/\]]0 603[[/\]]1 USB_MINI	R131	Resistor	RESC1608X06L	Тор
	021-R Battery	AB Battery	X3 BT1	USB connector Micro B Multicell Battery	Astron 3190005-x21-r BAT-2	Тор Тор
	Con1x6 FAN3988	Con1x6 FAN3988	X2 U23	1 x 6 pins connector USB/ Charger and Over Voltage Detection Device	MHDR1X6 MLP 1.45x1mm	Тор
	IRM-3636T	TSOP322 36	U20	IK Receiver Module (36 kHz) for Remote Control Systems	IR-receiver	Тор
1	LM4819M	LM4819M	U25	350mW Audio Power Amplifier with Shutdown Mode	M08A_N	Тор
		MCP6L04		T MHZ, 85 µA Quad Op Amp, 14-Pin TSSOP, Extended Temperature		
1	MCP6L04T-E/ST	T-E/ST	U5	Range, Tape and Reel Stand-Alone System Load Sharing and Li-lon/Li-	TSSOP-ST14_N	Тор
		MCP7387		Polymer Battery Charge Management Controller,		
1	MCP73871-2AAI/ML		U21	4.2V, 20-Pin QFN, Industrial Temperature	QFN-ML20_N	Тор
		SD-Card- Micro- ASLTRON				
1	MicroSD-Astron 5190008-XA4-R	5190008- XA4-R	S1	MicroSD Card connector 5190008-XA4-R	Astron 5190008-XA4-R	Тор
1	MMA7660FC	MMA7660 FC	u1	MMA7660FC: XYZ-AXIS ACCELEROMETER ±1.5 9	DFN50P300X300X100- 12N	Тор
1	NCP15XH103F03R C	Res Thermal	RT1	OHM 1%0402 General Purpose 16-Bit	RESC1005X04L	Тор
	PIC24FJ128GB106-	PIC24FJ1 28GB106-		Flash Microcontroller with USB On-The-Go, 128KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial		
1	I/PT Speaker	I/PT Speaker	U19 LS1	Temperature Loudspeaker	TQFP-PT64_N PIN2	Тор Тор
1	SW-PB	SW-PB	\$2	Switch Omnidirectional Back Electret Condenser	FSMRA2JH	Тор
1	TD4015BPN	Micro1	MC1	Microphone	MICRO_TD4015BPN	Тор
10	4.7K	4.7K[[/\]]0 603[[/\]]1 180K[[/\]] 0603[[/\]]	R67, R92, R93, R94, R103, R104, R142, R144, R145, R146	Resistor	RESC1608X06L	Тор
2	180	0603[[/\]] 1 100nF[[/\]	R107, R137	Resistor	RESC1608X06L	Тор
2	1nF]0603[[/\]] 1	C53, C54	Capacitor	CAPC1608X08L	Тор
		4.7uF[[/\]] 0603[[/\]] 1,				
2	1uF	1uF[[/\]]0 603[[/\]]1	C56, C61	Capacitor	CAPC1608X08L	Тор
	5.6K	2.2K[[/\]]0 603[[/\]]1	R115, R116	Resistor Schottky Barner Double	RESC1608X06L	Тор
	BAT54S BT5050RGBC-T180	BAT54S LED RGB SMD 2	D33, D34 D27, D38	Diode \$0.027/2000k	SOT23_N LEDSMD5	Тор Тор
				8-Bit Senai-Input/Senai or Prallel-Output Shift	LESSINDS	, oh
	MC74HC595ADTR2 Motor	MC74HC5 95ADTR2 Motor	U14, U16 B1, 82	Register with Latched 3- State Outputs Motor, General Kind	948F-01_N BAT-2	Тор
		100nF[[/\]]0603[[/\]]				
	100nF BC817-40	1 BC817-40	C1, C3, C6, C10, C11, C12, C13, C23, C24, C27, C29, C33, C35, C36, C37, C38, C39, C62, C66, C66, C67 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	Capacitor NPN General-purpose Transistor	CAPC1608X08L SOT23_N	Тор Тор
3	1.5K	RES	R26, R46, R47	120	RESC1608X06L	Тор
	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		Тор
3	A3	LED 470nF[[/\]]0603[[/\]]	D7, D32, D36	mount 2V@20ma 57mcd	27-21 Everlight	Тор
		1, 10nF[[/\]]				
		0603[[/\]] 1, 470nF[[/\]				
3	47nF]0603[[/\]] 1	C58, C59, C60	Capacitor 300ma, Low Quiescent	CAPC1608X08L	Тор
3	AP7331-33WG-7	AP7331	U18, U22, U24	Current, Fast Transient LDO LED standard - CMS	SOT95P285X100-5N	Тор
3	APTD1608CGCK	LED	D28, D29, D30	Helios SMD Green 570nm 230mcd	DIOC1608X08N	Тор
		100K[[/\]] 0603[[/\]] 1,				
1		100K[[/\]] 0603[[/\]]				

3	APTD1608CGCK	LED	D28, D29, D30	230mcd	DIOC1608X08N	Тор
		100K[[/\]] 0603[[/\]]				
		1, 100K[[/\]]				
		0603[[/\]] 1,				
		10K[[/\]]0 603[[/\]]1,				
		100K[[/\]] 0603[[/\]]				
4	100K	1 10uF[[/\]]	R138, R139, R141, R143	Resistor	RESC1608X06L	Тор
		1,				
		10uF[[/\]] 0603[[/\]]				
		1, 4.7uF[[/\]]				
		0603[[/\]] 1,				
		10uF[[/\]] 0603[[/\]]				
4	10uF 19-21SURC/ S530-	1	C2, C4, C32, C46	Capacitor SIMD Red 0603 2V@20ma	CAPC1608X08L	Тор
4	A3/TR8	LED 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
	39	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		R32, R34, R35, R41, R52, R53, R126	Resistor	RESC1608X06L	Тор
7	4.7uF	4.7uF[[/\]] 0603[[/\]] 1	C31, C44, C45, C47, C48, C49, C50	Capacitor	CAPC1608X08L	Тор
7	ITR9909	ITR9909	U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE	Тор
		10K[[/\]]0				
		603[[/\]]2, 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	10K		R101, R102, R109, R110, R117, R118, R128, R129	Resistor	RESC1608X06L	Тор
		RES, RES,				
		RES, 68K[[/\]]0				
		603[[/\]]1, RES,				
		RES, RES,				
8	33	68K[[/\]]0 603[[/\]]1	R98, R99, R100, R135, R147, R148, R149, R150	120, 120, 120, Resistor, 120, 120, 120, Resistor	RESC1608X06L	Тор
8	56	68K[[/\]]0 603[[/\]]1	R56, R58, R60, R62, R78, R79, R80, R81	Resistor	RESC1608X06L	Тор
8	APTD1608SYCK	LED	D13, D14, D15, D16, D21, D22, D23, D24	LED standard - CMS Helios	DIOC1608X08N	Тор



