



	_						
Quantity 2	Comment	LibRef Motor	Designator B1, B2	Description Motor, General Kind	Footprint RB5-10.5	Supplier	Supplier Nr
1	Battery	Battery	BT1	Multicell Battery	BAT-2		
36	100nF	100nF[[/]]0803 [[/]]1	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, C71	Capacitor	RESC1608X06L	Famel	1288255
7	10uF	4.7uF[[/\])0603[[/\]]1, 10uF[[/\])0603[[/\]]1	C2, C4, C32, C46, C51, C52, C72	Capacitor	RESC1608X06L	Famel	1463375, 9227784
7	4.7nF	CAP-NP 4.7uF[[/\]]0603[C15, C16, C17, C18, C19, C20, C21 C31, C40, C43, C44, C45, C47, C48, C49,	Capacitor	CAPC1608N		
9	4.7uF	[/\]]1 10uF[[/\]]0603[[C50	Capacitor	RESC1608X06L	Famell	9227784
1	10uF X5R	/\]]1 10pF[[/\]]0603[[C34	Capacitor	RESC1608X06L	Famell	1463375
2	18pF	/\]]3 100nF[[/\]]0603	C41, C42		RESC1608X06L	Famell	8819815
2	1nF	[[/\]]1 1uF[[/\]]0603[[/	C53, C54	Capacitor	RESC1608X06L	Famell	1288255
3	1uF	\]]1, 4.7uF[[/\])0603[[/\]]1 10nF[[/\]]0803[[C56, C61, C63	Capacitor	RESC1608X06L	Distrelec, Famell	823495, 9227784
1	1.5nF	/\]]1 10nF[[/\]]0603[[C57	Capacitor	RESC1608X06L	Famell	9406182
	47nF	/\]]1, 470nF[[/\]]0603 [[/\]]1			RESC1608X06L	Distrelec, Famell	
	51pF	10nF[[/\]]0603[[/\]]1	C58, C59, C60 C64	Capacitor	RESC1608X06L	Comel	823494, 9406182 9406182
4	19-21 SURC/ S530-A3/ TR8	LED	D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N	rumen	5400102
4	BT5050RGBC-T180	LED RGB SMD 2	D2, D6, D27, D38	\$0.027/2000k	LEDSMD5		
12	27-21SURC/S530-A3	LED	D7, D9, D10, D11, D12, D17, D18, D25, D26, D32, D35, D36	SMD Red led right angle mount 2V@20ma 57mod	27-21 Everlight		
3	27-21/BHC-AN1P2/3C	LED	D8, D31, D37	SMD Blue led right angle mount 3.3V@20ma 28mod LED standard - CMS Helios SMD Yellow	27-21 Everlight Blue		
8	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 57mod LED standard - CMS Helios SMD Green	Led_TH_3mm_20mm		
3	APTD 1608CGCK	LED	D28, D29, D30	570nm 230mcd	DIOC1608X08N		
1	BAT54S Speaker	BAT54S Speaker	D33, D34 LS1	Schottky Barrier Double Diode Loudspeaker	SOT23_N PIN2		
1	TD40158PN	Micro1	MC1	Ormidirectional Back Electret Condenser Microphone	MICRO_PANASONIC_WM-64PN		
			01, 02, 03, 04, 05, 06, 07, 08, 09, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042,				
46	BC817-40	BC817-40 4.7K[[/\][0603[[Q43, Q44, Q45, Q46 R1, R2, R57, R59, R61, R63, R64, R65, R67, R92, R93, R94, R103, R104, R111, R112, R113, R114, R142, R144, R145,	NPN General-purpose Transistor	SOT23_N		
22	4.7K	/\]]1 68KII/\110603II/	R146 R3, R5, R68, R69, R70, R71, R72, R73, R98, R99, R100, R135, R147, R148.	Resistor	RESC1608X06L	Distrelec	715604
16	33 2.7K	\]]1, RES	R149, R150 R4, R6	120, Resistor Resistor	RESC1608X06L RESC1608X06L	Distrelec	715632
8	22K	22K[[/\]]0603[[/ \]]1, RES	R7, R8, R9, R10, R11, R42, R43, R130	120, Resistor	RESC1608X06L	Distrelec	715620
		2.2KII/\110603II	R12, R13, R14, R15, R16, R32, R33, R34,				
15	2.2K 1.5K	/\]]1, RES	R35, R41, R44, R45, R52, R53, R126 R17, R18, R19, R20, R26, R46, R47	120, Resistor 120	RESC1608X06L RESC1608X06L	Distrelec	715596
	1K	1K[[/\]]0603[[/\]]1, RES	R21, R22, R23, R24, R25, R48, R49, R108	120, Resistor	RESC1608X06L	Districtor	715588
•		8.2K[[/\]]0603[[N21, R22, R23, R24, R25, R46, R49, R106	120, Resistor	RESCIOURADOL	Distretec	710000
15	10K	/\]]2, 10K[[/\]]0603[[/ \]]1, 10K[[/\]]0603[[/ \]]2, RES	R27, R28, R29, R30, R31, R50, R51, R101, R102, R109, R110, R117, R118, R128, R129	120, Resistor	RESC1608X06L	Distrelec, Famell	715612, 9330399, 9331565
7	6.2	RES 68K][/\][0603[]/	R36, R37, R38, R39, R40, R54, R55 R56, R58, R60, R62, R74, R75, R76, R77,	120	RESC1608X06L		
14	56	\]]1 " " " " 68K][/\][0603[]/	R78, R79, R80, R81, R90, R91 R66, R82, R83, R84, R85, R86, R87, R88,	Resistor	RESC1608X06L	Distrelec	715632
14	39 100	NIJ1 RES ACORT	R89, R95, R96, R97, R133, R134 R105, R106	Resistor Resistance	RESC1608X06L RESC1608X06N	Distrelec	715632
2	180	180R[[/]]0603[[/]]1	R107, R137	Resistor	RESC1608X06L	Distrelec	715570
2	5.6K	2.2K[[/\]]0603[[/\]]1	R115, R116	Resistor	RESC1608X06L	Dietroloc	715596
10	100K	10K[[/:]]0603[[/ /:]]1, 100K[[/:]]0603[[//:]]1	R119, R120, R121, R122, R123, R124, R138, R139, R141, R143	Resistor	RESC1608X06L	Distrelec	715612, 715636
1	680K	470K[[/\]]0603[[/\]]1	R125	Resistor	RESC1608X06L	Distrelec	715652
1	6.8K	10K[[/\]]0603[[/ \]]1	R127	Resistor	RESC1608X06L	Distrelec	715612
1	820	22K[[/\]]0603[[/ \]]1	R131	Resistor	RESC1608X06L	Distrelec	715620
1	47K	22K[[/\]]0603[[/ \]]1	R132	Resistor	RESC1608X06L	Distrelec	715620
1	270K	270K[[/\]]0603[[/\]]2	R140	Resistor	RESC1608X06L	Famel	9330941
1	NCP15XH103F03RC	Res Thermal	RT1	Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L		
1	MicroSD-Astron 5190008-XA4- R SW-PB	SD-Card-Micro- ASLTRON 5190008-XA4-R SW-PB	\$1 \$2	MicroSD Card connector 5190008-XA4-R Switch	Astron 5190008-XA4-R FSMRA2JH		
4	DMG1013T	DMG1013T	T1, T2, T3, T4	Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D	SOT50P160X80-3N		
4	DMG1012T	DMG1012T	T5, T6, T7, T8	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		
2	MCP6L04T-E/ST	MCP6L04T- E/ST	U4, U5	1 MHz, 85 µA Quad Op Amp, 14-Pin TSSOP, Extended Temperature Range, Tape and Reel	TSSOP-ST14_N		
7		ITR9909	U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE		
		MC74HC595AD	U13. U14. U15. U16. U17	8-Bit Serial-Input/Serial or Prallel-Output Shift Register with Latched 3-State	948F-01 N		
5	MC74HC595ADTR2 AP131-33WGCT-ND	TR2 AP7331	U13, U14, U15, U16, U17 U18, U26	Outputs 300mA, Low Quiescent Current, Fast Transient LDO	948F-01_N SOT95P285X100-5N		
1	PIC24FJ128GB1061/PT	AP7331 PIC24FJ128GB 106-I/PT	U19	Iransent LDO General Purpose 16-Bit Flash Microcontroller with USB On-The-Go, 128KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial Temperature	TQFP-PT64_N		
1	IRM-3636T	TSOP32236	U20	IR Receiver Module (36 kHz) for Remote Control Systems	IR-receiver		
		MCP73871-		Stand-Alone System Load Sharing and Li- lon/Li-Polymer Battery Charge Management Controller, 4.2V, 20-Pin			
1	MCP73871-2AAI/ML	2AAI/ML	U21	QFN, Industrial Temperature 300mA, Low Quiescent Current, Fast	QFN-ML20_N		
2	AP7331-33WG-7	AP7331	U22, U24	Transient LDO USB/ Charger and Over Voltage Detection Device	SOT95P285X100-5N		
1	FAN3988	FAN3988	U23	350mW Audio Power Amplifier with	MLP 1.45x1mm		
1	LM4819M Con1x6	LM4819M Con1x6	U25 X2	Shutdown Mode 1 x 6 pins connector	M08A_N MHDR1X6		
1	Alstron R3190005-021-R	USB_MINIAB	X3	USB connector Micro B	Astron 3190005-x21-r		
1	815-ABLS-8-B2	HC49/4H_SMX	Y1	Surface Mount Quartz Crystal 8Mhz	HC49/4H_SMX		

						Suppli		
Quantity	Comment	LibRef RES_AC	Designator	Description	Footprint	er	Supplier Nr	Laye
1	100	ORT	R105	Resistance	RESC1608X06N			Bottom
	1uF	0603[[/\] 11	C63	Capacitor	RESC1608X06L	Distrel ec	823495	Bottom
	6.2	RES	R38	120	RESC1608X06L	ec	823495	Bottom
1	815-ABLS-8-B2	HC49/4 H_SMX	Y1	Surface Mount Quartz Crystal 8Mhz	HC49/4H_SMX			Bottom
	AP131-33WGCT-	- LOWDY		300mA, Low Quiescent Current,	SOT95P285X100-			Dottom
1	ND	AP7331		Fast Transient LDO	5N			Bottom
				1 MHz, 85 µA Quad Op Amp, 14-Pin				
		MCP6L0		TSSOP, Extended Temperature Range,				
1	MCP6L04T-E/ST	4T-E/ST 4.7K[[/\]	U4	Tape and Reel	TSSOP-ST14_N			Bottom
12	4.7K]0603[[/\]]1	R1, R2, R57, R59, R61, R63, R64, R65, R111, R112, R113, R114	Resistor	RESC1608X06L	Distrel ec	715604	Bottom
		100nF[[/	111,12,101,100,101,100,111,1112,1110,1111	T COLOR	1120010001002		7 10004	Dottom
15	100nF	\]]0603[[/\]]1	C5, C7, C8, C9, C14, C22, C25, C26, C28, C30, C55, C68, C69, C70, C71	Capacitor	RESC1608X06L	Famell	1288255	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
		10pF[[/\]]0603[[/\						
	2 18pF]]3	C41, C42		RESC1608X06L	Famell	8819815	Botton
2	2.7K	RES 4.7uF[[/\	R4, R6	Resistor	RESC1608X06L			Botton
2	2 4.7uF]]0603[[/ \]]1	C40, C43	Capacitor	RESC1608X06L	Famell	9227784	Botton
	BT5050RGBC-	LED RGB						
2		SMD 2	D2, D6	\$0.027/2000k	LEDSMD5			Botton
2	1TR9909	ITR9909	U2, U3	Everlight Opto Interrupter	ITR9909_LONG			Botton
2	WP7104SRC/D	LED		Red led 2V@20ma 57mcd	Led_TH_3mm_20m m			Botton
		4.7uF[[/\	- 10, - 10					
]]0603[[/ \]]1,						1
		10uF[[/\]]0603[[/\						1
3	10uF]]1	C51, C52, C72	Capacitor 8-Bit Serial-	RESC1608X06L	Famell	1463375, 9227784	Botton
		MC74HC		Input/Serial or Prallel- Output Shift Register				
	MC74HC595ADT R2			with Latched 3-State Outputs	948F-01_N			Botton
4	1.5K	RES	R17, R18, R19, R20	120	RESC1608X06L			Botton
	1K	RES	R21, R22, R23, R24	120	RESC1608X06L			Botton
4	22K	RES	R7, R8, R9, R10	120 Transistor MOSFET 1	RESC1608X06L			Botton
,	DMG1012T	DMG101 2T	T5, T6, T7, T8	x N, Pining : 1=G, 2=S, 3=D	SOT50P160X80-3N			Botton
	DIVIGIOIZI			Transistor MOSFET 1	30130F100X00-3N			BOLLOI
4	DMG1013T	DMG101 3T	T1, T2, T3, T4	x P Pining : 1=G, 2=S, 3=D	SOT50P160X80-3N			Botton
		100K[[/\]]0603[[/				Distrel		
6	100K	\]]1	R119, R120, R121, R122, R123, R124	Resistor	RESC1608X06L	ec	715636	Botton
		68K[[/\]] 0603[[/\]				Distrel		
7	5 56 7 10K]1 RES	R74, R75, R76, R77, R90, R91 R27, R28, R29, R30, R31, R50, R51	Resistor 120	RESC1608X06L RESC1608X06L	ec	715632	Botton
	4.7nF	CAP-NP	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC1608N			Botton
		2.2K[[/\]						
8	3 2.2K]0603[[/\]]1, RES	R12, R13, R14, R15, R16, R33, R44, R45	120, Resistor	RESC1608X06L	Distrel ec	715596	Botton
	3 33	RES	R3, R5, R68, R69, R70, R71, R72, R73	120, Resistor	RESC1608X06L	00	7 10000	Botton
		68K[[/\]] 0603[[/\]				Distrel		
8	39]1	R82, R83, R84, R85, R95, R96, R97, R133	Resistor SMD Red led right	RESC1608X06L	ec	715632	Bottor
,	21SURC/S530-	LED		angle mount	07 04 E			D-#
٤	A3	LED RES_AC		2V@20ma 57mcd	27-21 Everlight			Botton
1	100	ORT 100K[[/\	R106	Resistance	RESC1608X06N			None
1	100K]]0603[[/ \]]1	R143	Resistor	RESC1608X06L	Distrel ec	715636	None
		4.7K[[/\]						1
1	4.7K]0603[[/\]]1	R67	Resistor	RESC1608X06L	Distrel ec	715604	None
		470nF[[/ \]]0603[[Distrel		
1	47nF	/\]]1	C60	Capacitor General Purpose 16-	RESC1608X06L	ec	823494	None
				Bit Flash Microcontroller with				
		DICOAEI		USB On-The-Go,				
	PIC24FJ128GB1	PIC24FJ 128GB1		128KB Flash, 16KB SRAM, 64-Pin TQFP,	TOFD			
1	06-I/PT	06-I/PT	U19	Industrial Temperature SMD Blue led right	1UFP#164_N			None
2	27-21/BHC- AN1P2/3C	LED	D8, D31	angle mount 3.3V@20ma 28mcd	27-21 Everlight Blue			None
	1			LED standard - CMS Helios SMD Green	. 3 2.30			1
3	APTD1608CGCK	LED	D28, D29, D30	570nm 230mcd	DIOC1608X08N			None
	1	10nF[[/\]]0603[[/\		L	<u> </u>	L	l	L
1	1.5nF]]1 10uF[[/\	C57	Capacitor	RESC1608X06L	Famell	9406182	Тор
1	10uF X5R]0603[[/\]]1	C34	Capacitor	RESC1608X06L	Famell	1463375	Тор
		_		SMD Blue led right				1
	27-21/BHC- AN1P2/3C	LED	D37	angle mount 3.3V@20ma 28mcd	27-21 Everlight Blue			Тор
1		270K[[/\]]0603[[/						
	0701		R140	Resistor	RESC1608X06L	Famell	9330941	Тор
1		\]]2 22K[[/\]]		Ì		Distrel ec	715620	Тор
1			R132	Resistor	RESC1608X06I	r -		
1	47K	22K[[/\]] 0603[[/\]]1 10nF[[/\]	R132	Resistor	RESC1608X06L			1
1	47K	22K[[/\]] 0603[[/\]]1 10nF[[/\]]]0603[[/\]]1	R132 C64	Resistor Capacitor	RESC1608X06L	Famell	9406182	Тор
1	47K 51pF	22K[[/\]] 0603[[/\]]]1 10nF[[/\]] 10603[[/\]]]1 10K[[/\]] 0603[[/\]	C64					Тор
1	47K 51pF	22K[[/\]] 0603[[/\]]]1 10nF[[/\]]]0603[[/\]]]1 10K[[/\]] 0603[[/\]]	R132			Famell Distrel ec	9406182 715612	Тор
1 1	47K 51pF 6.8K	22K[[/\]] 0603[[/\]]]1 10nF[[/\]]]0603[[/\]]]1 10K[[/\]] 0603[[/\]]]1 470K[[/\]]]0603[[/\]	R132 O64 R127	Capacitor Resistor	RESC1608X06L	Distrel ec Distrel	715612	Тор
1	47K 51pF 6.8K 680K	22K[[/\]] 0603[[/\]] 10nF[[/\]] 10nF[[/\]] 10K[[/\]]] 10K[[/\]] 10K[[/\]] 10K[[/\]] 10K[[/\]] 10K[[/\]] 10K[[/\]] 22K[/\]]	R132 C64 R127	Capacitor	RESC1608X06L	Distrel ec Distrel ec		
1 1 1	47K 51pF 6.8K 680K	22K[[/\]] 0603[[/\]]]1 10nF[[/\]]]0603[[/\]]]1 10K[[/\]]] 0603[[/\]] 1 470K[[/\]]]0603[[/\]]	R132 O64 R127	Capacitor Resistor	RESC1608X06L	Distrel ec Distrel	715612	Тор
1 1 1 1	47K 51pF 6.8K 680K 820 Alstron	22K[[/\]] 0603[[/\]] 1 10nF[[/\]] 100F[[/\]] 100K[[/\]] 1 10K[[/\]] 1 10K[[\]] 1 1 10K[[\]] 1 1 10K[[\]] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R132 C64 R127 R125	Capacitor Resistor Resistor	RESC1608X06L RESC1608X06L RESC1608X06L	Distrel ec Distrel ec	715612 715652	Тор Тор
1 1 1 1	47K 51pF 6.8K 680K 820 Alstron R3190005-021-R	22K[[/\]] 0603[[/\]] 10nF[[/\]] 10nF[[/\]] 10K[[/\]]] 10K([/\]]] 1470K[[/\]] 10603[[/\]] 122K[[/\]] 0603[[/\]] 1	R132 O64 R127 R125 R131 X3	Capacitor Resistor Resistor Resistor USB connector Micro B 300mA, Low	RESC1608X06L RESC1608X06L RESC1608X06L RESC1608X06L Astron 3190005-x21-r	Distrel ec Distrel ec	715612 715652	Тор
1 1 1 1 1 1 1 1	47K 51pF 6.8K 680K 820 Alstron	22K[[/\]] 0603[[/\]] 1 10nF[[/\]] 100F[[/\]] 100K[[/\]] 1 10K[[/\]] 1 10K[[\]] 1 1 10K[[\]] 1 1 10K[[\]] 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R132 C54 R127 R125 R131 X3	Capacitor Resistor Resistor USB connector Micro	RESC1608X06L RESC1608X06L RESC1608X06L RESC1608X06L	Distrel ec Distrel ec	715612 715652	Top Top
1 1 1 1 1 1 1 1	47K 51pF 6.8K 680K 820 Alstron R3190005-021-R AP131-33WGCT-ND Battery	22K[[/]] 0603[[/]] 110nF[[/]] 0603[[/]] 170K[[/]] 0603[[/]] 1470K[[/]] 190603[[/]] 122K[[/]] 0603[[/]] 1 USB_MI NIAB AP7331 Battery	R132 C64 R127 R125 R131 X3 U18 BT1	Capacitor Resistor Resistor Resistor USB connector Micro 300mA, Low Quiescent Current,	RESC1608X06L RESC1608X06L RESC1608X06L RESC1608X06L Astron 3190005-x21- r SOT997285X100- 5N BAT-2	Distrel ec Distrel ec	715612 715652	Top Top Top Top Top Top
1 1 1 1 1 1 1 1	47K 51pF 6.8K 680K 820 Alstron R3190005-021-R AP131-33WGCT-ND	22K[[/\]] 10603[[/\]] 11	R132 C54 R127 R125 R131 X3 U18 BT1 X2	Resistor Resistor Resistor USB connector Micro 300mA, Low Quiescent Curent, Fast Transient LDO	RESC1608X06L RESC1608X06L RESC1608X06L Astron 3190005-x21-r SOT95P285X100-5N	Distrel ec Distrel ec	715612 715652	Top Top Top Top

	AP131-33WGCT-			Quiescent Current,	SOT95P285X100-			
	ND Battery	AP7331 Battery	U18 BT1	Fast Transient LDO Multicell Battery	5N BAT-2			Top
1	Con1x6	Con1x6	X2	1 x 6 pins connector USB/ Charger and	MHDR1X6			Тор
1	FAN3988	FAN398 8	U23	Over Voltage Detection Device	MLP 1.45x1mm			Тор
		TSOP32		IR Receiver Module (36 kHz) for Remote				Ť
1	IRM-3636T	236	U20	Control Systems 350mW Audio Power	IR-receiver			Тор
1	LM4819M	LM4819 M	U25	Amplifier with Shutdown Mode 1 MHz, 85 µA Quad Op Amp, 14-Pin	M08A_N			Тор
1	MCP6L04T-E/ST	MCP6L0 4T-E/ST	U5	TSSOP, Extended Temperature Range, Tape and Reel Stand-Alone System Load Sharing and Li-	TSSOP-ST14_N			Тор
	MCP73871-	MCP738 71-		Ion/ Li-Polymer Battery Charge Management Controller, 4.2V, 20- Pin QFN, Industrial				
1	2AAI/ML	2AAI/ ML SD-Card- Micro- ASLTRO N	U21	Temperature MicroSD Card	QFN-ML20_N			Тор
1 1 1	MicroSD-Astron 5190008-XA4-R	5190008 XA4-R	S1	connector 5190008- XA4-R MMA7660FC: XYZ- AXIS	Astron 5190008-XA4			Тор
	MMA7660FC	MMA766 0FC	U1	ACCELEROMETER ±1.5 g	DFN50P300X300X1 00-12N			Тор
	NCP15XH103F0 3RC	Res Thermal	RT1	Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L			Тор
	Speaker	Speaker	LS1	Loudspeaker	PIN2			Тор
1	SW-PB	SW-PB	S2	Switch Omnidirectional Back	FSMRA2JH			Тор
1	TD4015BPN	Micro1 180R[[/\	MC1	Electret Condenser Microphone	MICRO_PANASONI C_WM-64PN			Тор
2	180]]0603[[/ \]]1 100nF[[/	R107, R137	Resistor	RESC1608X06L	Distrel ec	715570	Тор
2	1nF	\]]0603[[/\]]1 1uF[[/\]]	C53, C54	Capacitor	RESC1608X06L	Famell	1288255	Тор
		0603[[/\]]1, 4.7uF[[/\]]0603[[/				Distrel		
2	1uF]]0603[[/ \]]1 10nF[[/\]	C56, C61	Capacitor	RESC1608X06L	ec, Famell	823495, 9227784	Тор
]0603[[/\]]1, 470nF[[/				Distrel		
2	47nF	\]]0603[[/\]]1 2.2K[[/\]	C58, C59	Capacitor	RESC1608X06L	ec, Famell	823494, 9406182	Тор
2	5.6K]]1]0603[[/\]]1	R115, R116	Resistor	RESC1608X06L	Distrel ec	715596	Тор
2	AP7331-33WG-7	ΔΡ7331	U22, U24	300mA, Low Quiescent Current, Fast Transient LDO	SOT95P285X100- 5N			Тор
	BAT54S		D33, D34	Schottky Barrier Double Diode	SOT23_N			Тор
	BT5050RGBC-	LED RGB	500, 501	Double Blode	00120_11			1.05
	T180	SMD 2	D27, D38	\$0.027/2000k 8-Bit Serial-	LEDSMD5			Тор
		MC74HC 595ADT R2	U14. U16	Input/Serial or Prallel- Output Shift Register with Latched 3-State Outputs	948F-01_N			Тор
2	Motor	Motor 100nF[[/	B1, B2	Motor, General Kind	RB5-10.5			Тор
21		\]]0603[[/\]]1	C1, C3, C6, C10, C11, C12, C13, C23, C24, C27, C29, C33, C35, C36, C37, C38, C39, C62, C65, C66, C67	Capacitor	RESC1608X06L	Famell	1288255	Тор
28	BC817-40	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
3		RES 10K[[/\]]	R26, R46, R47	120	RESC1608X06L			Тор
		0603[[/\]]1, 100K[[/\]]0603[[/				Distrel		
	100K 27-	\]]1	R138, R139, R141	Resistor SMD Red led right	RESC1608X06L	ec	715612, 715636	Тор
	21SURC/S530- A3	LED 4.7uF[[/\	D7, D32, D36	angle mount 2V@20ma 57mcd	27-21 Everlight			Тор
]]0603[[/ \]]1, 10uF[[/\]]0603[[/\						
	10uF 19-]]1	C2, C4, C32, C46	Capacitor	RESC1608X06L	Famell	1463375, 9227784	Тор
	21SURC/S530- A3/TR8	LED	D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N	L_		Тор
4	1K	1K[[/\]]0 603[[/\]] 1, RES	R25, R48, R49, R108	120, Resistor	RESC1608X06L	Distrel ec	715588	Тор
4	22K		R11, R42, R43, R130	120, Resistor	RESC1608X06L	Distrel ec	715620	Тор
	39	68K[[/\]] 0603[[/\] 11	R66 R86 R87 R88 R80 R134	Resistor	BESC1608Auei	Distrel	715632	Ton
6	6.2	RES	R66, R86, R87, R88, R89, R134 R36, R37, R39, R40, R54, R55	Resistor 120	RESC1608X06L RESC1608X06L	ec	715632	Тор
		2.2K[[/\]]0603[[/\	R32, R34, R35, R41, R52, R53, R126	Resistor	RESC1608X06L	Distrel ec	715596	Тор
6	2.2K]]1				1		
7]]1 4.7uF[[/\]]0603[[/		C "	DECC424	-	0007704	
7	4.7uF]]1 4.7uF[[/\]]0603[[/ \]]1	C31, C44, C45, C47, C48, C49, C50	Capacitor Everlight Opto	RESC1608X06L	Famell	9227784	Тор
7]]1 4.7uF[[/\]]0603[[/\ \]]1 ITR9909 8.2K[[/\]]0603[[/\			RESC1608X06L ITR9909_EDGE	Famell	9227784	Тор
7	4.7uF ITR9909]]1 4.7uF[[/\]]0603[[/\]]1 ITR9909 8.2K[[/\]]]0603[[/\]]2, 10K[[/\]] 0603[[/\]	C31, C44, C45, C47, C48, C49, C50	Everlight Opto		Famell	9227784	
7 7 7	4.7uF ITR9909]]1 4.7uF[[/\]]]0603[[/\]]]1 ITR9909 8.2K[[/\]]]0603[[/\]]]2, 10K[[/\]]]0603[[/\]]]1, 10K[[/\]]0603[[/\]]0603[[/\]]	C31, C44, C45, C47, C48, C49, C50 U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE	Distrel ec,		Тор
7 7 7	4.7uF ITR9909]]1 4.7uF[[/\]]]0603[[/\]]]1 ITR9909 8.2K[[/\]]0603[[/\]]1, 10K[[/\] 10603[[/\]]2, 60603[[\]]2	C31, C44, C45, C47, C48, C49, C50 U6, U7, U8, U9, U10, U11, U12	Everlight Opto		Distrel ec, Famell	9227784 715612, 9330399, 9331565	
6 7 7 7 7 8 8 8	4.7uF ITR9909 10K]]1 4.7uF[[/\]]]0603[[/\]]]1 ITR9909 8.2K[[/\]]0603[[/\]]]2, 10K[[/\]]0603[[\]]1, 10K[[\]]2 68K[[\]]1, RES	C31, C44, C45, C47, C48, C49, C50 U6, U7, U8, U9, U10, U11, U12 R101, R102, R109, R110, R117, R118, R128, R129 R98, R99, R100, R135, R147, R148, R149, R150	Everlight Opto Interrupter	ITR9909_EDGE	Distrel ec, Famell Distrel		Тор
6 7 7 7 7	4.7uF ITR9909 10K]]1 4.7uF[[/\]]]0603[[/\]]]1 ITR9909 8.2K[[\\]][0603[[\\]][2, 10K[[\\]]]1, 10K[[\\]]]2, 6003[[\\]]]2 6603[[\\]]]2 6603[[\\]]]1, RES	C31, C44, C45, C47, C48, C49, C50 U6, U7, U8, U9, U10, U11, U12 R101, R102, R109, R110, R117, R118, R128, R129 R98, R99, R100, R135, R147, R148, R149, R150	Everlight Opto Interrupter Resistor 120, Resistor Resistor LED standard - CMS	ITR9909_EDGE RESC1608X06L	Distrel ec, Famell	715612, 9330399, 9331565	Тор
7 7 7 7 7 8 8 8 8 8 8 8 8	4.7uF ITR9909 10K]]1 4.7uF[[/\]]]0603[[/\]]]1 ITR9909 8.2k[[\\]]]2, 10k[[\\]]]2, 10k[[\\]]]1, 10k[[\\]]]1, 0603[[\\]]]2 6603[[\\]]]1, RES 68k[[\\]]]1, RES 68k[[\\]]]1, LED	C31, C44, C45, C47, C48, C49, C50 U6, U7, U8, U9, U10, U11, U12 R101, R102, R109, R110, R117, R118, R128, R129 R98, R99, R100, R135, R147, R148, R149, R150	Everlight Opto Interrupter Resistor 120, Resistor Resistor	ITR9909_EDGE RESC1608X06L RESC1608X06L	Distrel ec, Famell Distrel ec	715612, 9330399, 9331565 715632	Тор