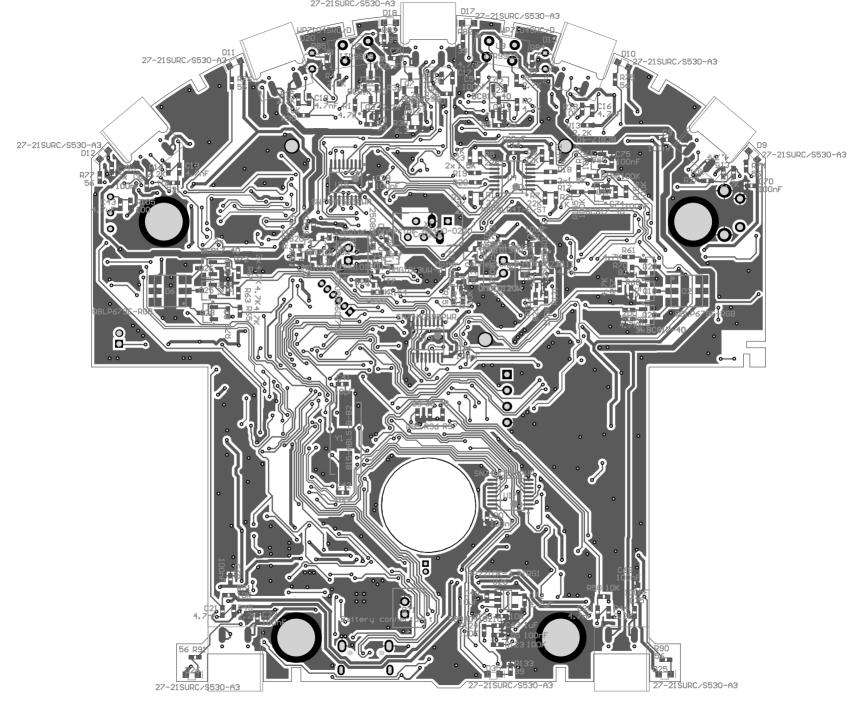


MicroSD-Astron 5190008-XA4-R



Quantitu	Commont	Designator	Description	Footprint
Quantity	Comment	Designator	Description	Footprint
2	Motor connector 89400-0220	B1, B2	Motor, General Kind	BAT-2
1	Battery connector t 08940-10210	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,		0.400.400.000
38	3 100nF	C66, C67, C68, C69, C70, C71, C74, C75	Capacitor	CAPC1005X05N
8	3 10uF	C2, C31, C40, C46, C51, C52, C73, C78	Capacitor	CAPC1005X05N
2	2 51pF	C4, C64	Capacitor	CAPC1005X05N
7	7 4.7nF	C15, C16, C17, C18, C19, C20, C21	Capacitor	CAPC1005X05N
,	 			
9	9 4.7uF	C32, C43, C44, C45, C47, C48, C49, C50, C72	Capacitor	CAPC1005X05N
1	1 10uF X5R	C34	Capacitor	CAPC1005X05N
2	2 18pF	C41, C42		CAPC1005X05N
2	2 1nF	C53, C54	Capacitor	CAPC1005X05N
	<u> </u>			
3	3 1uF	C56, C61, C63	Capacitor	CAPC1005X05N
1	1.5nF	C57	Capacitor	CAPC1005X05N
3	3 47nF	C58, C59, C60	Capacitor	CAPC1005X05N
		D1, D3, D4, D5	SMD Red 0603 2V@20ma 56 mcd	DIOC1608X08N
			SIND ICC 0003 2V 2011a 30 IIICC	
	<u> </u>	D2, D6		QBLP679E-RGB
12	2 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
3	3 27-21/BHC-AN1P2/3C	D8, D31, D37	SMD Blue led right angle mount 3.3V@20ma 28mcd	27-21 Everlight Blue
		D13, D14, D15, D16, D21, D22, D23, D24	LED standard - CMS Helios SMD Yellow 590nm 480mcd	DIOC1608X08N
•				
2	WP7104SRC/D	D19, D20	Red led 2V@20ma 57mcd	LED_TH_3MM_20MM
2	QBLP679E-RGB	D27, D38	<u> </u>	QBLP679E-RGB
3	APTD1608CGCK	D28, D29, D30	LED standard - CMS Helios SMD Green 570nm 230mcd	DIOC1608X08N
<u></u>		D33, D34	Schottky Barrier Double Diode	SOT23_N
5	5 2508056017Y2	L1, L2, L3, L4, L5	SMD EMI Suppression Ferrite Bead WE-CBF, Z = 600 Ohm	INDC2012X11L
1	1 Speaker	LS1	Loudspeaker	PIN2
1		MC1	Omnidirectional Back Electret Condenser Microphone	MICRO_TD4015BPN
		Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, Q11, Q12, Q13, Q14, Q15, Q16,	Online and a pack electric contaction interopriorie	miske_ib is issi k
		Q17, Q18, Q19, Q20, Q22, Q25, Q26, Q28, Q31, Q32, Q34, Q37, Q38,		<u> </u>
36	BC817-40	Q39, Q40, Q42, Q45, Q46, Q47, Q48	NPN General-purpose Transistor	SOT23_N
		R1, R2, R57, R59, R61, R63, R64, R65, R92, R93, R94, R111, R112, R113,		
18	3 4.7K	R114, R144, R145, R146	Resistor	RESC1005X04N
2	2 33	R3, R5	120, Resistor	RESC1005X04N
2	2 2.7K	R4, R6	Resistor	RESC1005X04N
10	22K	R7, R8, R9, R10, R11, R42, R43, R67, R130, R142	120, Resistor	RESC1005X04N
		R12, R13, R14, R15, R16, R32, R33, R34, R35, R41, R44, R45, R52, R53,		
17	7 2.2K	R103, R104, R126	120, Resistor	RESC1005X04N
7	7 1.5K	R17, R18, R19, R20, R26, R46, R47	120	RESC1005X04N
10	1K	R21, R22, R23, R24, R25, R48, R49, R108, R166, R167	120, Resistor	RESC1005X04N
- 10		R27, R28, R29, R30, R31, R50, R51, R101, R102, R109, R110, R117, R118,	120, 103/3/01	1255 1555/15 114
16		R128, R129, R136	120, Resistor	RESC1005X04N
	7 6.2	R36, R37, R38, R39, R40, R54, R55	120	RESC1005X04N
		R56, R58, R60, R62, R68, R71, R74, R75, R76, R77, R78, R79, R80, R81,	120	RESC 1005X04N
18		R90, R91, R98, R147	Resistor, 56	RESC1005X04N
			,	
14	1 39	R66, R82, R83, R84, R85, R86, R87, R88, R89, R95, R96, R97, R133, R134	Resistor	RESC1005X04N
	1 200	R69, R72, R99, R148	200	RESC1005X04N
4				
4	4 82	R70, R73, R100, R149	82	RESC1005X04N
4	100	R105, R106, R135, R150	Resistance, Resistor	RESC1005X04N
2	2 180	R107, R137	Resistor	RESC1005X04N
	2 5.6K	R115, R116		
	2 5.6K		Resistor	RESC1005X04N
15	5 100K	R119, R120, R121, R122, R123, R124, R138, R139, R141, R143, R155, R156, R157, R158, R159	Pocietor	RESC1005X04N
15			Resistor	
1		R125	Resistor	RESC1005X04N
1	1 6.8K	R127	Resistor	RESC1005X04N
5	820	R131, R151, R152, R153, R154	Resistor	RESC1005X04N
1	1 47K	R132		
<u> </u>			Resistor	RESC1005X04N
1		R140	Resistor	RESC1005X04N
1	NCP15XH103F03RC	RT1	Thermistors - NTC 10K OHM 1% 0402	RESC1005X04L
1	MicroSD-Astron 5190008-XA4-R	S1	MicroSD Card connector 5190008-XA4-R	Astron 5190008-XA4-R
1	SW-PB	S2	Switch	FSMRA2JH
<u> </u>				
4		T1, T2, T3, T4	Transistor MOSFET 1 x P Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N
4	1 DMG1012UW	T5, T6, T7, T8	Transistor MOSFET 1 x N, Pining : 1=G, 2=S, 3=D	SOT65P210X100-3N
1	1 STM-LIS2DE12-LGA-12	U1		STM-LGA-12
2		U2, U3	Everlight Opto Interrupter	ITR9909_LONG
			1 MHz, 85 μA Quad Op Amp, 14-Pin TSSOP, Extended	
2	MCP6L04T-E/ST	U4, U5	Temperature Range, Tape and Reel	TSSOP-ST14_N
		U6, U7, U8, U9, U10, U11, U12	Everlight Opto Interrupter	ITR9909_EDGE
	, , , , , , , , , , , , , , , , , , , ,	35, 37, 35, 07, 010, 011, 012	8-Bit Serial-Input/Serial or Prallel-Output Shift Register with	
5	SN74HC595PWR	U13, U14, U15, U16, U17	Latched 3-State Outputs	948F-01_N
<u> </u>				SOT95P285X100-5N
	AP2112K-3.3TRG1	U18	300mA, Low Quiescent Current, Fast Transient LDO General Purpose 16-Bit Flash Microcontroller with USB On-The-	30 173F 283A 100-31V
			Go, 128KB Flash, 16KB SRAM, 64-Pin TQFP, Industrial	
1	PIC24FJ128GB106-I/PT	U19	Temperature	TQFP-PT64_N
	IRM-3638T	U20	IR Receiver Module (38 kHz) for Remote Control Systems	IR-receiver
	I IKIVI-30301	020		In-1 cucivel
			Stand-Alone System Load Sharing and Li-Ion/Li-Polymer Battery Charge Management Controller, 4.2V, 20-Pin QFN, Industrial	
1	MCP73871-2CAI/ML	U21	Temperature	QFN-ML20_N
<u> </u>				_
3	3 AP2210K-3.3TRG1	U22, U24, U26	300mA, Low Quiescent Current, Fast Transient LDO	SOT95P285X100-5N
1	FAN3988	U23	USB/Charger and Over Voltage Detection Device	MLP 1.45X1MM
1	1 LM4819M	U25	350mW Audio Power Amplifier with Shutdown Mode	M08A_N
		X2	1 x 6 pins connector	MHDR1X6
1	WR-Communication Connectors 629105150521	X3	WR-COM_USB_Micro Type B_Horizontal_SMT	629105150521
1	1 815-ABLS-8-B2	Υ1	Surface Mount Quartz Crystal 8Mhz	HC49/4H_SMX

