

Designator	Description	Manufacturer	PartNumber	Value	Quantity
C1	0.1μF ±10% 10V Ceramic Capacitor X7R 0603	Yageo	CC0603KRX7R6BB104	100nF	1
C2	CAP CER 100PF 16V X7R 0603	Yageo	CC0603KRX7R7BB101	100pF	1
C3	CAP CER 22PF 50V COG/NPO 0603	Yageo	CC0603JRNPO9BN220	22pF	1
C4	Ceramic Capacitor X5R ±10% 16V 0402	Yageo	CC0402KRX5R7BB104	100nF	1
C5	100μF Molded Tantalum Capacitors 6.3V 1411	KEMET	T491B107K006AT	100uF	1
C6	CAP TANT 100UF 10% 6.3V	KEMET	T491X687K006AT	680uF	1
C7, C8, C9, C10	0.1μF ±10% 10V Ceramic Capacitor X7R 0603	Yageo	CC0603KRX7R6BB104	100nF	4
D1	TVS DIODE 3V SOT323-5	STMicroelectronics	ESDA6V1W5		1
D2	Transient Voltage Suppressor, 6.40 to 231 V, 5 V Stand-off Voltage, Bi-Directional, -55 to 155 degC, 2-pin DO-214AC, Pb-Free, Tape and Reel	Vishay Semiconductor	SMAJ5.0CA-E3/5A		1
D3	LED RED CLEAR 1006 SMD	Rohm Semiconductor	SML-P11UTT86R		1
J1	Ultra Miniature Coaxial Connector Jack, 60 V, 50 Ohm, -40 to 90 degC, RoHS, Tape and Reel	TE Connectivity	1909763-1		1
P1	14PIN BOARD TO BOARD MALE CONNECTOR	深圳市山谷道电子有限	SGDBM-08-014P-H20		1
Q1, Q2	NPN General Purpose Amplifier	ON Semiconductor	MMBT3904LT1G		2
R1, R2, R3	RES SMD 22 OHM 1% 1/10W 0603	Yageo	AC0603FR-0722RL	22	3
R4	RES SMD 1K OHM 1% 1/10W 0603	Yageo	AC0603FR-071KL	1K	1
R5, R7	RES SMD 4.7K OHM 1% 1/10W 0603	Yageo	AC0603FR-074K7L	4.7K	2
R6, R8	RES SMD 47K OHM 1% 1/10W 0603	Yageo	AC0603FR-0747KL	47K	2
SIM1	CONN SIM NANO HINGED 6P W/SWITCH	GCT	SIM8060-6-1-14-00-A		1
U1	SIM7020x / SIM7080G	SIMCOM	SIM7020		1
U2	SINGLE CHANNEL POWER DISTRIBUTION LOAD SWITCH	DIODES	AP22811AW5-7		1
U3	4-Bit Bidirectional Voltage-Level Translator with Automatic Direction Sensing	Texas Instruments	TXB0104PWR		1
PCB	PCB Material: FR-4 PCB Dimension (mm):42 x 25 PCB Layers: 2 PCB Layer Order: ☑TOP ☑BOTTOM PCB Thickness: 1.0mm Copper Weight: 1oz PCB Color: Green Silkscreen: White Surface Finish: Electroless Nickel Immersion Gold (ENIG) RoHS Via solder mask: Solder mask cover				1
PCB ANT	PCB Material: FR-4 PCB Dimension (mm):22 x 70 PCB Layers: 2 PCB Layer Order: ☑TOP ☑BOTTOM PCB Thickness: 0.8mm Copper Weight: 1oz PCB Color: Green Silkscreen: White Surface Finish: Electroless Nickel Immersion Gold (ENIG) RoHS Via solder mask: Solder mask cover				1
PCBA Coating	PCBA Coating with Conformal				2