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Size	Number	Revision
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Comment	Designator	Footprint	Quantity	Manufacturer Part Number	Description
RFECA3216060A1T	ANT1	Antenna-SMD		1 RFECA3216060A1T	Right RF Antenna
FPC Antenna	ANT2	E100-Antenna		1 FPC Antenna	FPC gsm antenna with 6cm wire
DAE1575R18	ANTENNA1	DAE1575R18		1 DAE1575R18	GPS GLONASS PATCH 1575.42MHZ
PH-2Pin SMD -Pitch 2mm	BT Connector1	PH-2Pin		1 5023520200	2 Pin PH Battery Connector
10nF	C1, C5	CAP-0603		2 06035C103K4T2A	Capacitor
470uF	C2	C_TN_7343		1 TAJE477K016RNJ	Polarized Capacitor (Radial)
10uF	C3, C4	C1206S		2 GRM188Z71A106KA73D	Capacitor
100nF	C6, C13, C14, C15, C26, C39, C47	CAP-0603		7 CC0603ZRY5V9BB104	Capacitor
10uF	C7, C10, C11, C22, C25, C29, C48	CAP-0603		7 GRM188Z71A106KA73D	Capacitor
2.2uF	C8	CAP-0603		1 GRM188Z71E225KE43D	Capacitor
1uF	C9, C32, C42	CAP-0603		3 CC0603KPX7R8BB105	Capacitor
470pF	C12, C30	CAP-0603		2 C0603C471G5GACTU	Capacitor
33pF	C16, C18, C19, C20, C21, C49	CAP-0603		6 C0603X330J5GACTU	Capacitor
10pF	C17, C27, C28, C46	CAP-0603		4 C0603C100K5GACTU, CC0402GRNPO9BN100	Capacitor
N/A	C23, C24	CAP-0603		2	Capacitor
100uF/50V	C31	C_EL_8		1 EEE-1HA101UP	NICHICON - EEE-1HA101UP - SMD, 100 µF, 50 V
NC	C40, C41	CAP-0603		2 NC	Capacitor
Connector Crimp	CON1, CON2, CON3, CON5, CON6, CON7			6 X2011T-PSN-A	Crimp
Connector Housing	CON4			1 X2011H-06A-N0	10 PIN Connector Housing
SS110	D1	D_SOD123A		1 SS110-TP	Schottky Diode
SMBJ60CA	D2	dolphin_smb		1 SMBJ60CA	Zener Diode
B340A-13-F	D3, D4	Dolphin_SMA		2 B340A-13-F	Schottky Diode
ZMM3V3-B	D5	SMB_MINI		1 ZMM3V3-B	ZMM3V3-B
B1608SB6ZQC	D7	LED-0603-blue_Dolphin		1 B1608SB6ZQC	Typical INFRARED GaAs LED
B1608SR6ZQC	D8	LED-0603-Red_Dolphin		1 B1608SR6ZQC	Typical INFRARED GaAs LED
12.000.2	F1	Fuse-1206		1 12.000.2	Fuse
33UH	L1	ind-33uh		1 CSMW10145-330M	FIXED IND 33UH 1.8A
2nH	L2, L3	res-0603		2 VHF160808H2N0ST	Inductor
X2011WRS-06A-9TSN	P3	ph-6Pin		1 X2011WRS-06A-9TSN	Header, 6-Pin
MMUN2232	Q1, Q2, Q3, Q4	SOT23_3		4 MMUN2232LT1G	TRANS PREBIAS NPN 246MW SOT23-3
47K	R1, R4, R9, R30	res-0603		4 RC0603JR-0747KL	Resistor
4.7K	R2, R17, R18, R19, R21, R27, R28	res-0603		7 RC0603JR-074K7L	Resistor
10K	R3, R5, R6, R10, R12, R13, R25, R32, R34, R35, R36, R37	res-0603		12 RC0603JR-0710KRL, RC0603JR-0710KL	Resistor
30K	R7	res-0603		1 RC0603JR-0730KL	Resistor
100K	R8, R26	res-0603		2 RC0603JR-07100KL	Resistor
1K	R11, R22, R23	res-0603		3 RC0603JR-071KL	Resistor
22R	R14, R15, R16	res-0603		3 RC0603JR-0722RL	Resistor
0R	R20, R38	res-0603		2 RC0603JR-070RL, RC0603FR-070RL	Resistor
0R	R24	res-0402		1 RC0603FR-070RL	Resistor
49.9K	R31	res-0603		1 RC0603FR-0749K9L	Resistor
499R	R33	res-0603		1 RC0603FR-07499RL	Resistor
MUP-C782 7Pin	SIM1	MUP-C782		1 MUP-C782-3	
DMP2035UVTQ	T1, T2, T10	TSOT26-DMP2035UVTQ		3 DMP2035UVTQ	
LMR16030PDDA	U1	FP-DDA0008E-IPC_C		1 LMR16030PDDA	IC REG BUCK ADJUSTABLE 3A 8SOPWR
TP4057	U2	SOT23_6		1 TP4057	500mA线性锂离子电池充电器
SGM2019-3.3YN5G/TR	U3, U6	SOT23_5		2 SGM2019-3.3YN5G/TR	SGM2019-3.3YN5G/TR
MC25	U4			1	
KXTJ3-1057	U5	LGA-12-pin		1 KXTJ3-1057	± 2g / 4g / 8g / 16g Tri-axis Digital Accelerometer Specifications
ESP32-C3FN4	U7	ESP32-c3		1 ESP32-C3FN4	Ultra-Low-Power SoC with RISC-V Single-Core CPU Supporting IEEE 802.11b/g/n (2.4 GHz Wi-Fi) and Bluetooth® 5 (LE)
ULN2003A SMD	U8	SO_16		1 ULN2003A	High-Voltage, High-Current Darlington Array
xtal 40Mhz -10ppm	Y1	XTL_4_2520		1 Q24FA20H0020900 2S4000063	CLOCK OSCILLATOR,