Part	x	Y	Angle	Package	Value	Manufacturer	Manufacturer Part No	Farnell Part No	McMaster Part No	Mouser Part No	Description
Dimensions	50.80	50.80									
Fiducials - for solder paste mask alignment:											
FD1 0.76 50.04 0 Fiducial 0.635mm											
FD2	49.91	0.89	0								Fiducial 0.635mm
Surface Mo	unt Comi	onents:									
C1 C2	18.54 34.67	13.34 29.85	270 270	0603 0603	0.1uF 2.2uF	Murata AVX	GRM188R71H104JA93D 06036D225KAT2A	2688523 1327678			MultiLayer Ceramic Capacitor; 0.1uF; 50V; 0603; X7R MultiLayer Ceramic Capacitor; 2.2uF; 6.3V; 0603; X5R
C3	27.43	30.48	270	0603	1.0uF	Walsin	0603X105K100CT	2496916			MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R
C4	36.32	29.85	270	0603	0.22uF	Multicomp	MC0603F224Z160CT	1759019			MultiLayer Ceramic Capacitor; 0.22uF; 16V; 0603
C7	11.43	25.40	270	0603	10uF	AVX	06036D106MAT2A	1833804			MultiLayer Ceramic Capacitor; 10uF; 6.3V; 0603; X5R
C8	38.48	24.38	180	0603	1.0uF	Walsin	0603X105K100CT	2496916			MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R
C9	40.51	35.94	270	0603	10nF	Walsin	0603B103K101CT	2496825			MultiLayer Ceramic Capacitor; 10nF; 100V; 0603; X7R
C10 D1	33.15 48.26	33.40 13.97	0	0603 0603	1.0uF	Walsin Kingbright	0603X105K100CT KPT-1608SURCK	2496916 2099224			MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R Red LED 0603
D1 D2	48.26	16.51	0	0603		Kingbright	KP-1608SYCK	2290330			Yellow LED 0603
D3	48.26	19.05	0	0603		Kingbright	KP-1608CGCK	2290328			Green LED 0603
J1	22.70	34.49	0		SS4-10-3.50	Samtec	SS4-10-3.50-L-D-K-TR	2085336			Samtec SS4-10-3.50-L-D-K-TR
J2	3.24	25.40	270		SM04B-SRSS-TB	JST	SM04B-SRSS-TB	1830839			4-way 1mm Qwiic connector SparkFun PRT-14417
J4	47.56	25.40	90		SM04B-SRSS-TB	JST	SM04B-SRSS-TB	1830839			4-way 1mm Qwiic connector SparkFun PRT-14417
J7	38.73	40.96	90	uFL	uFL	Hirose	U.FL-R-SMT(01)	3908021			HIROSE U.FL-R-SMT(01); U.FL Coaxial; Straight Jack; 50 ohm
Q1	29.08	35.56	0	SOT23	DMG3414U-7	Diodes Inc.	DMG3414U-7	2061404			MOSFET; N Channel; SOT23-WIDE
R1 R2	43.18 6.35	13.97 33.02	180 90	0603 0603	1k 2.2k	Multicomp	MCWR06X1001FTL MCWR06X2201FTL	2447272 2447320			Chip Resistor; Thick Film; 1k; 50V; 0603; 100mW Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW
R3	3.81	33.02	90	0603	2.2k 2.2k	Multicomp Multicomp	MCWR06X2201FTL	2447320			Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW
R4	17.65	16.26	0	0603	4.7k	Multicomp	MCWR06X4701FTL	2447385			Chip Resistor; Thick Film; 4.7k; 50V; 0603; 100mW
R5	22.23	13.34	90	0603	10k	Multicomp	MCWR06X1002FTL	2447230			Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW
R6	47.24	31.75	90	0603	12k	Multicomp	MCWR06X1202FTL	2447243			Chip Resistor; Thick Film; 12k; 50V; 0603; 100mW
R7	44.2	31.75	270	0603	30.1k	Multicomp	MCWR06X3012FTL	2447334			Chip Resistor; Thick Film; 30.1k; 50V; 0603; 100mW
R8	39.12	29.85	270	0603	100k	Multicomp	MCWR06X1003FTL	2447226			Chip Resistor; Thick Film; 100k; 50V; 0603; 100mW
R9 R10	30.48 37.85	39.12 35.05	90 180	0603 0603	0.012 Ohm 100R	Yageo Multicomp	RL0603FR-070R012L MCWR06X1000FTI	2447227		603-RL0603FR070R012L	Current Sense Resistor; 12 mOhms; 0603; 100mW Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW
R11	37.85	36.83	0	0603	100R	Multicomp	MCWR06X1000FTL	2447227			Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW  Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW
R12	43.18	16.51	180	0603	1k	Multicomp	MCWR06X1000FTL	2447272			Chip Resistor; Thick Film; 1k; 50V; 0603; 100mW
R13	43.05	19.05	180	0603	2.2k	Multicomp	MCWR06X2201FTL	2447320			Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW
R14	39.62	32.38	0	0603	10k	Multicomp	MCWR06X1002FTL	2447230			Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW
U1	24.77	19.05	0	SO14		Microchip	ATTINY841-SSU	2396716			Microchip AVR ATtiny841 16MHz SOIC
U2 U3	30.61 34.04	29.72 36.96	0	DFN-10 TSOT6	LTC3225EDDB ADM4210-1	Linear Technology	LTC3225EDDB#TRMPBF ADM4210-1	1715231		584-C3225EDDBTRMPBF 584-ADM4210-1AUJZ-R7	Supercapacitor Charger
U3	34.04	36.96	U	15016	ADM4210-1	Analog Devices	ADM4210-1			584-ADM4210-1AUJZ-R7	Hot Swap Controller
Press-In Nuts for Iridium 9603N (press into the BOTTOM of the PCB):											
HOLE1	3.81	3.81			Press-In Nut	McMaster-Carr	95117A411		95117A411		Press-In Nut; 2-56
HOLE2	28.81	3.81			Press-In Nut	McMaster-Carr	95117A411		95117A411		Press-In Nut; 2-56
Non-surface mount components:											
C5 & C6					1F 2.7V	Bussmann	HV0810-2R7105-R	2148482			Supercapacitor; 1F; 2.7V; +30%, -10%; 3.5mm Pitch
SC1 & SC2	Se	e notes b	elow		10F 2.7V	Bussmann	HV1030-2R7106-R	2148486			Supercapacitor; 10F; 2.7V; +30%, -10%; 5.0mm Pitch
ANTENNA					SMA Jack	Samtec	SMA-J-P-H-ST-EM1	2856818			SMA End Launch Jack 50 Ohm
Iridium 9603N:											
9603N						Iridium	9603N				https://www.rock7.com/shop-product-detail?productId=50
Mounting hardware for Iridium 9603N:											
SPACERS_x2 SCREWS_x2									94669A100 92185A081		4.5mm OD x 6mm Spacers for Iridium Module 2-56 x 7/16 Screws for Iridium Module
Cable for Iridium 9603N:											
CABLE						Amphenol	A-1PA-132-025B2	2664624			Amphenol AMC cable (u.FL compatible) 50ohm 25mm
SMA Anten	na:										
Iridium						Maxtena	M1621HCT-SMA	2281619			Iridium Passive Antenna with SMA connector

SC1 and SC2 are optional - they are only required if you select 60mA charge current. Install them flat against the underside of the PCB, carefully bending the legs first. Glue them in place if required.

Notes: