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 FD2	0.76 49.91	50.04 0.89	0								Fiducial 0.635mm Fiducial 0.635mm
Surface Mount Components:											
C1 C2 C3	18.54 34.67 27.43 36.32	13.34 29.85 30.48 29.85	270 270 270 270	0603 0603 0603 0603	0.1uF 2.2uF 1.0uF 0.22uF	Murata AVX Walsin Multicomp	GRM188R71H104JA93D 06036D225KAT2A 0603X105K100CT MC0603F2247160CT	2688523 1327678 2496916 1759019			MultiLayer Ceramic Capacitor; 0.1uF; 50V; 0603; X7R MultiLayer Ceramic Capacitor; 2.2uF; 6.3V; 0603; X5R MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R MultiLayer Ceramic Capacitor; 0.2uF; 16V; 0603
C7 C8 C9 C10	11.43 38.48 40.51 33.15	25.40 24.38 35.94 33.40	270 180 270 0	0603 0603 0603 0603	10uF 1.0uF 10nF 0.22uF	AVX Walsin Walsin Multicomp	06036D106MAT2A 0603X105K100CT 0603B103K101CT MC0603F224Z160CT	1833804 2496916 2496825 1759019			MultiLayer Ceramic Capacitor; 10uF; 6.3V; 0603; X5R MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R MultiLayer Ceramic Capacitor; 10nF; 100V; 0603; X7R MultiLayer Ceramic Capacitor; 0.22uF; 16V; 0603
D1 D2 D3 J1	48.26 48.26 48.26 22.70	13.97 16.51 19.05 34.49	0 0 0	0603 0603 0603	SS4-10-3.50	Kingbright Kingbright Kingbright Samtec	KPT-1608SURCK KP-1608SYCK KP-1608CGCK SS4-10-3.50-L-D-K-TR	2099224 2290330 2290328 2085336			Red LED 0603 Yellow LED 0603 Green LED 0603 Samtec SS4-10-3.50-L-D-K-TR
J2 J4 J7 Q1 R1	3.24 47.56 38.73 29.08 43.18	25.40 25.40 40.96 35.56 13.97	270 90 90 0 180	uFL SOT23 0603	SM04B-SRSS-TB SM04B-SRSS-TB uFL DMG3414U-7 1k	JST JST Hirose Diodes Inc. Multicomp	SM04B-SRSS-TB SM04B-SRSS-TB U.FL-R-SMT(01) DMG3414U-7 MCWR06X1001FTL	1830839 1830839 3908021 2061404 2447272			4-way 1mm Qwiic connector SparkFun PRT-14417 4-way 1mm Qwiic connector SparkFun PRT-14417 HIROSE U.FL-R-SMT(01); U.FL Coaxial; Straight Jack; 50 ohm MOSFET; N Channel; SOT23-WIDE Chip Resistor; Thick Film; 1k; 50V; 0603; 100mW
R2 R3 R4	6.35 3.81 17.65 22.23	33.02 33.02 16.26	90 90 0	0603 0603 0603 0603	2.2k 2.2k 4.7k 10k	Multicomp Multicomp Multicomp Multicomp	MCWR06X2201FTL MCWR06X2201FTL MCWR06X4701FTL MCWR06X1002FTL	2447320 2447320 2447385 2447230			Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW
R6 R7 R8 R9	47.24 44.2 39.12 30.48	31.75 31.75 29.85 39.12	90 270 270 90	0603 0603 0603 0603	12k 30.1k 100k 0.012 Ohm	Multicomp Multicomp Multicomp Yageo	MCWR06X1202FTL MCWR06X3012FTL MCWR06X1003FTL RL0603FR-070R012L	2447243 2447334 2447226		603-RL0603FR070R012L	Chip Resistor; Thick Film; 12k; 50V; 0603; 100mW Chip Resistor; Thick Film; 30.1k; 50V; 0603; 100mW Chip Resistor; Thick Film; 100k; 50V; 0603; 100mW Current Sense Resistor; 12 mOhms; 0603; 100mW
R10 R11 R12 R13 R14	37.85 37.85 43.18 43.05 39.62	35.05 36.83 16.51 19.05 32.38	180 0 180 180 0	0603 0603 0603 0603	100R 100R 1k 2.2k 10k	Multicomp Multicomp Multicomp Multicomp Multicomp	MCWR06X1000FTL MCWR06X1000FTL MCWR06X1001FTL MCWR06X2201FTL MCWR06X1002FTL	2447227 2447227 2447272 2447320 2447230			Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW Chip Resistor; Thick Film; 100R; 50V; 0603; 100mW Chip Resistor; Thick Film; 1k; 50V; 0603; 100mW Chip Resistor; Thick Film; 2.2k; 50V; 0603; 100mW Chip Resistor; Thick Film; 10k; 50V; 0603; 100mW
U1 U2 U3	24.77 30.61 34.04	19.05 29.72 36.96	0 0 0	SO14 DFN-10 TSOT6	LTC3225EDDB ADM4210-1	Microchip Linear Technology Analog Devices	ATTINY841-SSU LTC3225EDDB#TRMPBF ADM4210-1	2396716 1715231		584-C3225EDDBTRMPBF 584-ADM4210-1AUJZ-R7	Microchip AVR ATtiny841 16MHz SOIC Supercapacitor Charger Hot Swap Controller
Press-In Nuts for Iridium 9603N (press into the BOTTOM of the PCB):											
HOLE1 HOLE2	3.81 28.81	3.81 3.81			Press-In Nut Press-In Nut	McMaster-Carr McMaster-Carr	95117A411 95117A411		95117A411 95117A411		Press-In Nut; 2-56 Press-In Nut; 2-56
C5 & C6 SC1 & SC2	SC2 See notes below				1F 2.7V 10F 2.7V	Bussmann Bussmann	HV0810-2R7105-R HV1030-2R7106-R	2148482 2148486			Supercapacitor; 1F; 2.7V; +30%, -10%; 3.5mm Pitch 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.F.L compatible) 500hm 25mm											
SMA Antenna:											
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.