Part	x	Y	Angle	Package	Value	Manufacturer	Manufacturer Part No	Farnell Part No	McMaster 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 C4 C7 C8 D1 D2 D3 J1 J2 J4 J7 Q1 Q2 R1 R2 R3 R4 R5 R6 R7 R8 R9 R10 R11 R12 R13 U1	33.53 31.5 43.18 43.05 24.77	13.34 29.85 30.48 29.85 25.40 19.05 19.05 34.61 13.97 17.78 13.97 33.02 33.02 33.02 16.26 13.34 31.75 13.34 34.67 17.4 16.51 19.05 19.05	270 270 270 270 270 270 180 0 0 0 0 270 90 90 0 180 90 0 90 270 270 270 270 270 270 270 270 270	0603 0603 0603 0603 0603 0603 0603 0603	0.1uF 2.2uF 1.0uF 0.22uF 10uF 1.0uF 1.0uF 1.0uF  SS4-10-3.50 SM04B-SRSS-TB SM04B-SRSS-TB UFL DMG3415U-7 2N2222 1k 2.2k 2.2k 4.7k 10k 12k 30.1k 100k 10k 1k 10k 1k 10k 1k 1.0k	Murata AVX Walsin Multicomp AVX Walsin Kingbright Kingbright Kingbright Samtec JST JST Hirose Diodes Inc. Fairchild Multicomp	GRM188R71H104JA93D 06036D225KAT2A 0603X105K100CT MC0603F224Z160CT 06036D106MAT2A 0603X105K100CT KPT-1608SURCK KP-1608SYCK KP-1608SCK SS4-10-3.50-L-D-K-TR SM04B-SRSS-TB UFL-R-SMT(01) DMG3415U-7 MMBT2222A MCWR06X1001FTL MCWR06X2201FTL MCWR06X201FTL MCWR06X201FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1002FTL MCWR06X1001FTL MCWR06X1001FTL MCWR06X1002FTL MCWR06X1001FTL MCWR06X201FTL ATTINY841-SSU	2688523 1327678 2496916 1759019 1833804 2496916 2099224 2290328 2085336 1830839 3908021 1843688 9846700 2447272 2447320 2447230 2447243 2447230 2447230 2447230 2447230 2447230 2447230 2447230 2447230 2447230 2447230 2447230 2447230 2447272 2447320 2447272 2447320 2477320 2477320		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; 1uF; 10V; 0603; X5R MultiLayer Ceramic Capacitor; 10uF; 6.3V; 0603; X5R MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R MultiLayer Ceramic Capacitor; 1uF; 10V; 0603; X5R Red LED 0603 Green LED 0603 Samtec SS4-10-3.50-L-D-K-TR 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; P Channel; SOT23-WIDE Bipolar (BJT) Single Transistor, NPN, 40 V, 350 mW, 1 A Chip Resistor; Thick Film; 1k; 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; 1k; 50V; 0603; 100mW
				s into the BOTTOM of		Linear Technology	LTC3225EDDB#TRMPBF	1/15251		Supercapacitor Charger
HOLE1 HOLE2	3.81 28.81	3.81 3.81	-		Press-In Nut Press-In Nut	McMaster-Carr McMaster-Carr	95117A411 95117A411			Press-In Nut; 2-56 Press-In Nut; 2-56
Non-surface C5 & C6 SC1 & SC2 ANTENNA		e notes b	oelow		1F 2.7V 10F 2.7V SMA Jack SMA Jack	Bussmann Bussmann Johnson Samtec	HV0810-2R7105-R HV1030-2R7106-R 142-0711-821 SMA-J-P-H-ST-EM1	2148482 2148486 1019328 2856818		Supercapacitor; 1F; 2.7V; +30%, -10%; 3.5mm Pitch Supercapacitor; 10F; 2.7V; +30%, -10%; 5.0mm Pitch SMA End Launch Jack 50 Ohm SMA End Launch Jack 50 Ohm
<b>Iridium 960</b> 9603N	3N:					Iridium	9603N			https://www.rock7.com/shop-product-detail?productId=50
Mounting hardware for Iridium 9603N:										
SPACERS_x2 SCREWS_x2										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 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.

Notes: