





Designator	Quantity	Description
A1	1	JOHANSON TECHNOLOGY 2450AT18D0100 ANTENNA, CERAMIC, 2.45GHZ
B1	1	Johanson Technology Impedance Matched Balun Filter Integrated Passive for nRF24L01
C1, C19	2	10nF 0402 X7R 25V ±5%
C2, C12, C13	3	1uF 0603 X5R 10V ±10%
C3, C15, C16	3	4.7uF 0603 X5R 10V ±10%
C4, C5, C6, C10, C11, C14, C17, C18	8	100nF 0402 X7R 16V ±10%
C7, C8	2	22pF 0402 NP0/CG0 50V ±5%
C9	1	10uF 0603 X5R 6.3V ±20%
C20	1	1nF 0402 X7R 50V ±10%
C21	1	2.2nF 0402 X7R 50V ±10%
C22	1	33nF 0402 X7R 50V ±10%
D1, D3	2	Everlight PD15-22C/TR8 Silicon PIN Photodiode
D2	1	ROHM SMLVN6RGB1W1 LED Tri-Color Blue/Green/Red Chip LED 6-Pin 1411 T/RLED Tri-Color Blue/Green/Red Chip LED 6-Pin 1411
J1	1	Molex Pico-EZmate™ Wire-to-Board Header, 2 contacts
J2	1	Molex Pico-EZmate™ Wire-to-Board Header, 3 contacts
Q1, Q2, Q3, Q4	4	On Semiconductor MMBT3904L General Purpose Transistor NPN Silicon
R1, R2, R3	3	22R 0402 1/16W ±1%
R4, R5, R6, R8, R12, R15, R23	7	100K 0402 1/16W ±1%
R7, R9, R14, R19, R20, R22	6	10K 0402 1/16W ±1%
R10, R13	2	560K 0402 1/16W ±1%
R11, R21	2	1.5M 0402 1/16W ±1%
R16	1	22.6R 0402 1/16W ±0.05R
R17	1	130R 0402 1/16W ±0.05R
R18	1	24.9R 0402 1/16W ±0.05R
R24	1	0R 0402 1/16W ±0.05R
R25, R26	2	NOT CONNECTED
R27	1	22K 0402 1/16W ±1%
U1	1	STMICROELECTRONICS STM32F051C8U6 MCU 32BIT CORTEX-M0 48MHZ UFQFPN-48
U2	1	STMicroelectronics iNEMO inertial module: 3D accelerometer and 3D gyroscope
U3	1	ALLEGRO MICROSYSTEMS - A3901SEJTR-T - IC, MOTOR DRIVER
U4	1	Analog Devices ADP122ACPZ-3.3-R7 - 5.5 V Input, 300 mA, Low Quiescent Current, CMOS Linear Regulator
U5	1	Atmel Seven-channel QTouch® Touch Sensor IC
U6	1	Miniature Single-Cell, Fully Integrated Li-Ion, Li-Polymer Charge Management Controller, 4.2V, 5-Pin SOT-23, Industrial Temperature, Tape and Reel
U7	1	Nordic Semi Ultra low power 2.4GHz RF Transceiver IC
Y1	1	TXC - 7V-16.000MAAE-T, 16MHZ, 30PPM, 12PF - CRYSTAL