

Description	Value	Quantity	Designator	Manufacturer	Part Number
2.45 GHz chip antenna	2450AT18B100	1	A1	Johanson Technology	Johanson 2450AT18B100
Microphones MICROPHONE -42 DB 2 VDC 200 UA 300 OHM,20 Hz ~ 20 kHz Analog Microphone MEMS (Silicon) 1.5 V ~ 3.6 V Omnidirectional (-42dB +/-1dB) Solder Pads	N.A.	2	B1, B2	PUI Audio	AMM-3742-T-WP-R
IMUs - Inertial Measurement Units Smart Ultra-Low Power Inertial Measurement Unit (IMU) for Wearable Applications		1	B3	Bosch	BMI270
Capacitor, 0.7p, 0201, NP0, ±2%	0.7p	1	C1	N.A.	C0201-0p7
Capacitor, 1uF, 0402, X5R, ±5%	1uF	11	C2, C3, C5, C7, C10, C14, C15, C32, C38, C40, C54	N.A.	C0402-1µ0
Capacitor, 2.2nF, 0201, NP0, ±2%	2.2nF	1	C4	N.A.	C0201-2n2
Capacitor, 100nF, 0201, NP0, ±2%	100nF	23	C6, C8, C9, C11, C12, C13, C16, C17, C21, C26, C27, C28, C29, C33, C34, C39, C41, C42, C44, C47, C48, C51, C53	N.A.	C0201-100n
Capacitor, 10uF, 0402, X5R, ±5%	10uF	3	C18, C20, C52	N.A.	C0402-10µ
Capacitor, NC, 0201, NP0, ±2%	N.C.	4	C19, C35, C36, C37	N.A.	C0201-NC
Capacitor, 2.2uF, 0603, Ceramic, X5R, ±10%, 10V	2.2µF	1	C22	N.A.	C0603-2µ2-10V-X5R
Capacitor, 10uF, 0603, X5R, ±10%	10uF	5	C23, C24, C25, C30, C49	N.A.	C0603-10µ
Capacitor, 22uF, 0603, X5R, ±20%, 6.3V	22µF	2	C31, C50	N.A.	C0603-22µ
Capacitor, 10nF, 0201, NP0, ±2%	10nF	1	C43	N.A.	C0201-10n
Capacitor, 1u5F, 0402, X5R, ±5%	1u5F	2	C45, C46	N.A.	C0402-1µ5
Very low capacitance bidirectional ESD protection diode	PESD5V0V1BDSF	4	D1, D2, D3, D4	Nexperia	PESD5V0V1BDSF
Ferrite Bead, 120 Ohm @ 100MHz, 500mA, 250 mOhm Max	120R/0.55A	1	FB1	Murata	FB0402-120R@100M-500mA
General Purpose Audio Codec 4ADC / 2DAC Ch 42-Pin WLCSP T/R	N.A.	1	IC1	Analog Devices	ADAU1787BCBZRL
Coaxial Connector with Switch	MM8130-2600	1	J1	Murata	MM8130-2600
1.0mm pitch connector side entry SMD	SM02B-SRSS-TB	4	J2, J3, J4, J5	JST Sales America Inc.	SM03B-SRSS-TB
Inductor, 2.2nH, 0201 ±5%, High frequency	2.2nH	2	L1, L2	N.A.	L0201-2n2
Inductor, 10uH, 0603, IDC, min = 50 mA, ±20%	10uH	2	L3, L4	N.A.	L0603-10µ
Inductor, 2.2uH, 0806, 2.5A 87MOHM SMD	2.2µH	1	L5	Samsung Electro-Mechanics	CIGT201610EH2R2MN E
LED, SMD, 0603, RED	L0603R	4	LD1, LD2, LD3, LD5	Multicomp	OVS-0608 RED
LED, SMD, 0603, Yellow	L0603Y	1	LD4	Würth Elektronik	150060YS75000
Pin Header 2x5, 1.27mm (50mil), SMD, Keying Shroud Angular	Pin Header 2x5, 1.27mm Angular	1	P1	W-CON	Pin Header 2x5 SMD, 1.27mm, KS
MOSFET, Dual N and P-Channel, 20V, 450mA/310mA, 990mOhm, 350mW	DMC2990UDJ	1	Q1	Diodes Incorporated	DMC2990UDJ-7
MOSFET, Dual N-Channel, 20V, 240mA, 1050mOhm, 300mW	DMN26D0UDJ	2	Q2, Q3	Diodes Incorporated	DMN26D0UDJ-7
Resistor, 1M, 0201, ±1%, 0.05W	1M0	5	R1, R5, R8, R10, R13	N.A.	R0201-1M0
Resistor, 1.5M, 0201, ±1%, 0.05W	1M5	1	R2	N.A.	R0201-1M5
Resistor, 6.8k, 0201, ±1%, 0.05W	6K8	1	R3	N.A.	R0201-6k8
Resistor, 220k, 0201, ±1%, 0.05W	220k	1	R4	N.A.	R0201-220k
Resistor, 220R, 0201, ±1%, 0.05W	220R	3	R6, R7, R12	N.A.	R0201-220R
Resistor, 470R, 0201, ±1%, 0.05W	470R	2	R9, R11	N.A.	R0201-470R
Resistor, 10k, 0201, ±1%, 0.05W	10k	2	R14, R15	N.A.	R0201-10k
Resistor, 1.8k, 0201, ±1%, 0.05W	1K8	2	R16, R17	N.A.	R0201-1k8

Resistor, 33R, 0201, ±1%, 0.05W	33R		8	R18, R19, R20, R21, R22, R23, R24, R25	N.A.	R0201-33R
Tactile Switch, SPNO, SMD, 160gf, 4.2x3.3x2.5mm	PB SW		2	SW1, SW2	KLS	KLS7-TS3401-2.5-160R
Multi-protocol Bluetooth Low Energy, IEEE 802.15.4, ANT and 2.4GHz proprietary system-on-chip	N.A.		1	U1	Nordic Semiconductors	nRF5340-CLAA
0.9V Ultra-Low Quiescent Current, Inductor Built-in Step-Down DC/DC Converter, CL-2025-03	XCL232D091		1	U2	Torex Semiconductor	XCL232D091KR-G
1.8V, 200mA Inductor Built-in Step-Down "micro DC/DC" Converter	XCL210C18		1	U3	Torex Semiconductor	XCL210C181GR-G
Li-Ion/Li-Polymer USB battery charger with a high efficiency buck regulator	nPM1100-CAAAC0		1	U4	Nordic Semiconductor	nPM1100-CAAAC0
Wide Vcc Range 16M-BIT [x 1/x 2/x 4] CMOS MXSMIO (SERIAL MULTI I/O) FLASH MEMORY	N.A.		1	U5	Macronix	MX25R1635FZUILO
Voice Pickup Sensor	N.A.		1	U7	Knowless	V2S200D-1-8
XTAL SMD 2016, 32MHz, Cl=8pF, Total Tol: ±40ppm	32MHz		1	X1	Golledge	XTAL_SMD2016_32MHz_8pF_General
XTAL SMD 2012, 32.768kHz, Cl=9pF, Total Tol: ±50ppm	32.768kHz		1	X2	Golledge	XTAL_SMD2012_32.768kHz_9pF_General
Standard Clock Oscillators Oscillator 2520 4-SMD 24.576MHz +/-50ppm	24.576 MHz		1	Y1	Abracon	ASDMB-24.576MHZ-LC-T