

MAXREFDES100 BOM RevA:

Designation	Qty	Description
ANT1	1	Chip antenna, 2450AT series Johanson Technology 2450AT42B100E
C1, C29	2	0.047uF 10%, 25V C0G ceramic capacitors (0805) Kemet C0805C473K3GAC
C2, C4, C44, C49	4	10uF 20%, 6.3V X5R ceramic capacitors (0402) Murata GRM155R60J106ME44
C3, C9, C14, C15, C18, C19, C53, C63	8	1uF 20%, 6.3V X7R ceramic capacitors (0402) Murata GRM155R70J105MA12
C5, C37	2	22uF 20%, 6.3V, X5R ceramic capacitors (0603) TDK C1608X5R0J226M080AC
C6, C16, C31	3	100pF 5%, 50V C0G ceramic capacitors (0402) Murata GRM1555C1H101JA01
C8, C39, C40, C54, C56, C62	6	0.1uF 10%, 50V X7R ceramic capacitors (0402) Murata GRM155R71H104KE14
C10, C11, C38, C41, C42, C46, C57	7	4.7uF 10%, 10V X5R ceramic capacitors (0402) TDK C1005X5R1A475K050
C13, C27	2	1uF 10%, 16V X7R ceramic capacitors (0603) Murata GCM188R71C105KA64
C17	1	1000pF 2%, 50V C0G ceramic capacitor (0402) Murata GRM1555C1H102GA01
C20, C23, C26, C28, C32, C48, C50, C55	8	0.1uF 10%, 10V X5R ceramic capacitors (0402) Murata GRM155R61A104KA01
C21, C34	2	1uF 10%, 35V X5R ceramic capacitors (0603) Taiyo Yuden GMK107BJ105KA
C22, C25	2	15pF 5%, 50V C0G ceramic capacitors (0402) Murata GRM1555C1H150JA01
C24, C58-C61	5	1uF 10%, 6.3V X5R ceramic capacitors (0402) Murata GRM155R60J105KE19
C30, C36	2	4700pF 10%, 25V X7R ceramic capacitors (0402) Murata GRM155R71E472KA01
C33	1	100uF 20%, 6.3V 20OHM tantalum capacitor (0805) Vishay Sprague 298D107X06R3P2
C43, C45, C47, C52	4	10pF \pm 0.5pF, 50V C0G ceramic capacitors (0402) Kemet C0402C100D5GAC
C51	1	1000pF 5%, 50V C0G ceramic capacitor (0402) Murata GRM1555C1H102JA01
CN1	1	USB 3.1 type C mid-mount receptacle Mill-Max Manufacturing 898-43-024-90-310000
DS1	1	Red LED (0402) Rohm Semiconductor SML-P11UTT86
L1	1	4.7uH 20%, 1A 365mOHM inductor (2mmx1.6mm) TDK VLS201610CX-4R7M
L2	1	2.2uH 20%, 1.5A 204mOHM inductor (0805) Murata 1285AS-H-2R2M

L3	1	3.3nH \pm 0.3nH, 400mA 220mOHM inductor (0402) TDK MLK1005S3N3ST000
L4	1	1.5nH \pm 0.3nH, 500mA 150mOHM inductor (0402) TDK MLK1005S1N5ST000
Q1, Q3	2	20V 600mA N-CH MOSFET NXP PMZB600UNE
Q2	1	20V 3.8A/2.6A N/P-CH MOSFET (6-MICROFET) Fairchild FDME1034CZT
Q4	1	20V 2.6A P-CH MOSFET (6-MICROFET) Fairchild FDFME2P823ZT
R1, R23, R24, R28	4	10k ohm 1% resistors (0402)
R2, R7, R12, R15, R18, R22, R31, R33, R34	9	4.7k ohm 0.1W 1% resistors (0402) Panasonic ERJ-2RKF4701
R3, R4, R17, R19	4	1M ohm 0.1W 1% resistors (0402)
R6, R20, R21, R27, R29, R43-R45	8	0 ohm 0.1W 1% resistors (0402)
R8	1	499k ohm 0.1W 1% resistor (0402)
R9, R38	2	49.9k ohm 0.1W 1% resistors (0402)
R10	1	324k ohm 0.1W 0.1% resistor (0603)
R13, R36	2	100k ohm 0.1W 5% resistors (0402)
R14, R32	2	5.1k ohm 0.1W 1% resistors (0402)
R25	1	1k ohm 0.1W 1% resistor (0402)
R26, R30	2	2.49k ohm 0.1W 1% resistors (0402)
R39, R41	2	1k ohm 0.1W 1% resistor (0402)
R42	1	576k ohm 0.1W 1% resistor (0402)
SW1	1	Surface mount switch (3.50mmx2.90mm) Panasonic EVP-AA202K
T1	1	2.4GHz~2.5GHz transformer (0805) Johanson Technology 2450BL15B200
U2, U12	2	Maxim human body temperature sensor (8-TDFN-EP) Maxim MAX30205MTA+
U3	1	Maxim ECG R-R AFE (28-TQFN-EP) Maxim MAX30003CTI+
U4	1	Maxim 3.3V LDO (SOT23-6) Maxim MAX8881EUT33+
U5	1	Digital barometric pressure sensor (LGA8) Bosch BMP280
U6	1	Dual-bit dual-bus transceiver (BGA8) TI SN74LVC2T45YZPR
U7	1	BLE controller (24-QFN-EP) EM Microelectronic EM9301V22LF24B+
U8	1	4-bit dual-supply bus transceiver (11-UCSP) TI SN74AVC4T234ZSUR
U9	1	Maxim LDO (SOT23-6) Maxim MAX8880EUT+
U11	1	Maxim power management IC (WLP25) Maxim MAX14720AEWA+
U13	1	3-D accelerometer and 3-D gyroscope (LGA14) ST Microelectronics LSM6DS3

U14	1	Digital motion sensor (LGA14) ST Microelectronics LIS2DH
U15, U19	2	Maxim ESD protection IC (WLP9) Maxim MAX3205EAWL+
U16, U20, U21, U26	4	Multifunction gate logic (XSON6) NXP 74AUP1G97GF
U17	1	Pulse oximeter and heart-rate sensor (OLGA14) Maxim MAX30101EFD+
U18, U23	2	Maxim single-supply dual SPST analog switch (8-UFDN) Maxim MAX4741ELA+
U22, U25	2	Maxim single comparator (4-UCSP) Maxim MAX9064EBS+G45
U24	1	0.05A to 0.6A programmable switch (10-UTQFN) Maxim MAX4995AAVB+
U27	1	1.8V flash memory (8-WSON-EP) Spansion S25FS256SAGNFI001
XU1	1	High performance low power Cortex-M4F microcontroller Maxim MAX32620IWG+
Y1	1	26MHz crystal Abracon ABM8-26.000MHZ-10-1U
Y2	1	32.768kHz crystal Abracon ABS07-32.768KHZ-6-T