

FCC ID: 2ADXG-SHOCK

| Component Name | Description | Footprint | Value | Manufacturer | Part Number |
|---|-------------|-----------|---------------|--------------|--------------------|
| C1 | Capacitor | SM0603 | 0.068uF (50V) | Murata | GCM188R71H683KA57D |
| C2 | Shunt | SM0603 | 0 Ohm | | |
| C3, C5 | Capacitor | SM0402 | 0.022uF (25V) | Murata | GRM155R71E223KA61D |
| C4 | Capacitor | SM0603 | 1000pF (50V) | Murata | GRM1885C1H102JA01D |
| C6, C10 | Capacitor | SM0402 | 0.01uF (25V) | Murata | GRM155R71E103KA01D |
| C7, C9 | Capacitor | SM0402 | 0.47uF (35V) | Murata | GRM155R6YA474ME01D |
| C8 | Capacitor | SM0603 | 27pF (50V) | Murata | GRM1885C1H270FA01D |
| C11, C13, C14, C25, C27, C28, C32, C33, C38, C39, C40 | Capacitor | SM0402 | 0.1uF | Taiyo Yuden | LMK105BJ104KV-F |
| C12 | Capacitor | SM0603 | 10uF (25V) | Murata | GRM188R61E106MA73D |
| C15, C17, C18, C26 | Capacitor | SM0603 | 4.7uF (25V) | Murata | GRM188C81E475KE11D |
| C16 | Capacitor | SM0402 | 33pF (50V) | Murata | GRM1555C1H330JA01D |

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| C19 | Capacitor | SM0402 | NC | | |
| C20 | Capacitor | SM0402 | 0.8pF | Johanson Technology | 500R07S0R8BV4T |
| C21, C22 | Capacitor | SM0402 | 16pF | Murata | GRM1555C1H160JA01D |
| C23, C31 | Capacitor | SM0402 | 1uF | Taiyo Yuden | JMK105BJ105KVHF |
| C24 | Capacitor | SM0402 | 100pF | Murata | GRM1555C1H101JA01D |
| C29, C30 | Capacitor | SM0402 | 300pF | Murata | GRM1555C1H301JA01D |
| C34, C35 | Capacitor | SM0402 | 1500pF (25V) | Kemet | C0402H152J3GAC7867 |
| C36, C37 | Capacitor | SM0402 | 4.3pF | Murata | GRM1555C1H4R3CA01D |
| D1 | Diode (fast) | SOD-523 | | NXP | PMEG2005EB.115 |
| L1, L2 | Inductor | SM0603 | 4.7uH | TDK | GLFR1608T4R7M-LR |
| L3 | Inductor | SM0402 | 3.9nH | Johanson Technology | L-07C3N9SV6T |
| L4 | Inductor | SM0402 | 15nH | Johanson Technology | L-07C15NJV6T |

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|----------------|-------------------------------|-------------|------------|---------------------|--------------------|
| L5 | Inductor | SM0603 | 10uH | Taiyo Yuden | LBMF1608T100K |
| LED | TriColor LED | SML-4 | RGB | Lumex | SML-LX0404SIUPGUSB |
| Q1 | Wireless Qi Charge Controller | QFN-N20 | | Texas Instruments | BQ51050BRHLR |
| Q2 | Battery protection IC | U-DFN2030-6 | | Diodes Incorporated | AP9211SA-AC-HAC-7 |
| Q3, Q6, Q7, Q8 | N-Channel MOSFET | SOT-523 | | Diodes Incorporated | DMG1012T-7 |
| Q4 | Synchronous buck converter | DFN8 | (1.8V) | Microchip | MCP1603-180I/MC |
| Q5 | Synchronous boost converter | DFN8 | | Microchip | MCP1661T-E/MNY |
| Q9, Q10 | Operational Amplifier | WDFN8 | | STMicroelectronics | TSX632IQ2T |
| R1 | Resistor | SM0402 | 1.33K (1%) | Yageo | RC0402FR-071K33L |
| R2 | Resistor | SM0402 | 357 (1%) | Yageo | RC0402FR-07357RL |
| R3 | Resistor | SM0402 | 1.2K (1%) | Panasonic | ERJ-2RKF1201X |
| R4 | Resistor | SM0402 | 21K (1%) | Panasonic | ERJ-2RKF2102X |

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|------------------------------|----------|--------|------------|-----------|------------------|
| R5 | Resistor | SM0402 | 2.7K (1%) | Panasonic | ERJ-2RKF2701X |
| R6 | Resistor | SM0402 | 3.3K | Panasonic | ERJ-2RKF3301X |
| R7 | Resistor | SM0402 | 470 | Panasonic | ERJ-2RKF4700X |
| R8 | Resistor | SM0402 | 3.3M | Panasonic | ERJ-S02F3302X |
| R9, R22, R24 | Resistor | SM0402 | 1.05M (1%) | Vishay | CRCW04021M05FKED |
| R10, R15, R16, R17, R18 | Resistor | SM0402 | 120K (1%) | Yageo | RC0402FR-07120KL |
| R11, R21, R23, R25, R26, R32 | Resistor | SM0402 | 909K (1%) | Vishay | RC0402FR-07909KL |
| R12 | Resistor | SM0402 | 680 (1%) | Panasonic | ERJ-2RKF6800X |
| R13 | Resistor | SM0402 | 820 (1%) | Panasonic | ERJ-2RKF8200X |
| R14 | Resistor | SM0402 | 2.2K (1%) | Panasonic | ERJ-2RKF2201X |
| R19, R20 | Resistor | SM0402 | 24.3K (1%) | Panasonic | ERJ-S02F2432X |
| R27, R28 | Resistor | SM0402 | 10K | Panasonic | ERJ-PA3F1002V |

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| R29 | Shunt | SM0402 | 0 | | |
| R30 | Resistor | SM0402 | NC | | |
| R31 | Resistor | SM0402 | 374K (1%) | Yageo | RC0402FR-07374KL |
| S1, S2 | Peizoelectric sensor | SM1208 | | Murata | PKGS-25SXAP1-R |
| SENSORA, SENSORB | Single sensor pole | DT1-028K (neg) | | TE Connectivity | 1-1002608-0 |
| TR1 | Thermal Resistor | R0402 | 10K | Panasonic | ERT-JOEM103J |
| U1 | Battery fuel gauge | TDFN-EP-8 | | Maxim | MAX17048G+ |
| U2 | Bluetooth LE SoC | NRF-QFN-48 | | Nordic Semiconductor | NRF52832-QFAA |
| U3 | Inertial Motion Unit | LGA-16L | | STMicroelectronics | LSM6DS33TR |
| U4 | Barometric Sensor | MS5637 | | TE Connectivity | MS563702BA03 |
| U5 | Environment sensor | DFN-6 | | Silicon Laboratories | SI7021-A20-GM1 |
| Y1 | Crystal Oscillator | NX2520 | 32.000MHz (10ppm) | NDK | NX2520SA-32.000000MHz |