

| Comment                             | Description  | Designator             | Footprint            | LibRef             | Manufacturer 1 | Manufacturer Part Number 1 | Quantity | Supplier 1 | Supplier Currency 1 | Supplier Order Qty 1 | Supplier Part Number 1    | Supplier Stock 1 | Supplier Subtotal 1 | Supplier Unit Price 1 | Value |
|-------------------------------------|--|------------------------|----------------------|--------------------|----------------|----------------------------|----------|------------|---------------------|----------------------|---------------------------|------------------|---------------------|-----------------------|-------|
| GRM21BR60G107ME15L                  |  | C5                     | C0805                | Capacitor          |                |                            | 1        | Digi-Key   |                     |                      | 490-10510-1-ND            |                  |                     |                       | 100uF |
| 1u                                  | CAP CER 1UF 6.3V X5R 0201  | C6                     | 0201-cap             | CAP0603            |                |                            | 1        | Digi-Key   |                     |                      | 490-7229-2-ND             |                  |                     |                       |       |
| 0u1                                 | CAP CER 0.1UF 16V Y5V 0402   | C7                     | 0201-cap             | CAP0402            |                |                            | 1        | Digi-Key   |                     |                      | 490-10404-2-ND            |                  |                     |                       |       |
| 1u                                  |  | C8, C10                | 0603-CAP             | CAPACITOR-0603     |                |                            | 2        | Digi-Key   |                     |                      | 587-3766-1-ND             |                  |                     |                       |       |
| 0.1u                                |  | C9                     | 0402-CAP             | CAPACITOR-0402     |                |                            | 1        | Digi-Key   |                     |                      | 311-1047-2-ND             |                  |                     |                       |       |
| 100u                                |  | C11                    | 1206-CAP             | CAPACITOR-1206     |                |                            | 1        | Digi-Key   |                     |                      | 445-6007-2-ND             |                  |                     |                       |       |
| 8p                                  | CAP CER 8PF 50V NPO 0201   | C12, C13               | 0201-cap             | CAP0402            |                |                            | 2        | Digi-Key   |                     |                      | 490-13331-1-ND            |                  |                     |                       |       |
| CAP CER 10000PF 50V X7R 0402        | CAP CER 10000PF 50V X7R 0402   | C14, C18, C19, C20     | CAPC1005L            | Cap                |                |                            | 4        | Digi-Key   |                     |                      | 445-6893-1-ND             |                  |                     |                       | 10nF  |
| Cap                                 | CAP CER 1UF 6.3V X5R 0402  | C15, C16               | CAPC1005L            | Cap                |                |                            | 2        | Digi-Key   |                     |                      | 587-3766-1-ND             |                  |                     |                       | 1uF   |
| Cap                                 | Capacitor  | C17                    | CAPC2012L            | Cap                |                |                            | 1        | Digi-Key   |                     |                      | 587-3391-1-ND             |                  |                     |                       | 22uF  |
| JST_GH_H4                           | SM04B-GHS-TB   | CAN, CAN1              | JST_GH_H4            | JST_GH_H4          |                |                            | 2        | Digi-Key   |                     |                      | 455-1566-2-ND             |                  |                     |                       |       |
| AMBER                               | LED 1.6X0.8 DOME ORN CLEAR SMD   | LED1, LED2, LED3, LED4 | 0603-LED             | LED0603            |                |                            | 4        | Digi-Key   |                     |                      | 754-1802-1-ND             |                  |                     |                       | AMBER |
| JST_SUR_6                           | Connector, Header, 6Pos, .8mm IDC, R/A, SMD, Tin   | P1                     | JST_SUR_H6           | JST_SUR_6          |                |                            | 1        | Digi-Key   |                     |                      | SM06B-SURS-Tf (LF)(SN)-ND |                  |                     |                       |       |
| RES SMD 120 OHM 5% 1/16W 0402       | RES SMD 120 OHM 5% 1/16W 0402  | R1, R15                | R0402                | Resistor           |                |                            | 2        | Digi-Key   |                     |                      | 311-120JRT-ND             |                  |                     |                       | 120R  |
| 220R                                | RES 220 OHM 1/16W 1% 0402 SMD  | R3, R4, R5, R6         | 0402-RES             | RESISTOR0402-RES   |                |                            | 4        | Digi-Key   |                     |                      | 311-220LRCT-ND            |                  |                     |                       | 220R  |
| JST_GH_V6                           | BM06B-GHS-TBT  | SERIAL                 | JST_GH_V6            | JST_GH_V6          |                |                            | 1        | Digi-Key   |                     |                      | 455-1582-2-ND             |                  |                     |                       |       |
|                                     | MIC5353 - 500mA LDO in 1.6mm x 1.6mm Package The MIC5353 is a high-performance, single-output, ultra-low LDO (ULDOTM) regulator, offering a low total output noise of 30µVRMS. The MIC5353 is capable of sourcing 500mA output current and offers high-PSRR and low-output noise, making it an ideal solution for RF applications. The MIC5353 provides 2% accuracy, extremely low dropout voltage (160mV @ 500mA), and low ground current (typically 90µA) making it ideal for battery-operated applications. When disabled, the MIC5353 enters a zero-off-mode current state, thereby drawing almost |                        |                      |                    |                |                            |          |            |                     |                      |                           |                  |                     |                       |       |
| MIC5353                             |  | U1                     | MLF-6-1.6MM          | MIC5353            |                |                            | 1        | Digi-Key   |                     |                      | 576-3680-1-ND             |                  |                     |                       |       |
| CAN                                 |  | U3                     | SON65P300X100_HS-9N  | CAN                |                |                            | 1        | Digi-Key   |                     |                      | 568-8686-2-ND             |                  |                     |                       |       |
| IC MCU M4 64KB FLASH 32UFQFPN       | 72 MHz Cortex-M4F MCU with 16 KB RAM, 64 KB flash  | U4                     | QFN50P500X500X60-32L | STM32F302K8U6      |                |                            | 1        | Newark     |                     |                      | 41Y5840                   |                  |                     |                       |       |
| DWM1000                             |  | UWB1                   | DWM1000              | DWM1000            |                |                            | 1        | Digi-Key   |                     |                      | 1479-1002-2-ND            |                  |                     |                       |       |
| Crystal Oscillator in SMD 1.6 x 1.2 | CRYSTAL 24MHZ 8PF SMD  | X1                     | OSCILLATOR-1.6x1.2   | OSCILLATOR-3.2X2.5 |                |                            | 1        | Digi-Key   |                     |                      | 887-1846-2-ND             |                  |                     |                       |       |